

Digitized by the Internet Archive
in 2018 with funding from
Cambridge Public Libray

City of Cambridge

Massachusetts

352

C14

1922

THE ANNUAL REPORTS

Made to the City Council

FOR THE

Year Ending March 31, 1922



PUBLISHED BY ORDER OF THE CITY COUNCIL
UNDER THE DIRECTION OF THE
CITY CLERK

73081



J. FRANK FACEY, Printer
36 Prospect Street
Cambridge

73081



HON. EDWARD W. QUINN
MAYOR OF CAMBRIDGE
MASSACHUSETTS

INAUGURAL ADDRESS
OF
Hon. Edward W. Quinn
1922

Gentlemen of the City Council:—

We meet here today to take up the duties imposed upon us as the elected representatives of the people of Cambridge. It is a task which should enlist our highest qualities and deepest effort. Under popular government, there is no mistaking the responsibility that goes with the holding of public office. Truer words were never uttered with respect to government than that "public office is a public trust." This fact has been brought home to me with a special emphasis by the deep confidence expressed in me by the citizens of Cambridge at the last election.

FINANCE

Our financial condition as regards ability to care for permanent improvements is today the best it has ever been in the history of the city. This is extremely fortunate at this time as many extraordinary demands will have to be met during the next two years, particularly in additional school accommodations, made necessary by the large increase in the number of pupils returning to and remaining longer than they did during the war.

The unemployment situation, which has prevailed during the past year, has been our most serious problem and has called for the expenditure of over a hundred thousand dollars not anticipated in our estimates.

The probability of this situation continuing for some months raises the question of meeting it in our appropriations for the coming year and the necessity to diverting to this appropriation every dollar that can be saved from other sources.

POOR DEPARTMENT

The general unemployment throughout the country has added to the already heavy burden in the Department of the Overseers

of the Poor. In this Department the expenditure for "Outside Aid" from April 1, 1920, to Jan. 1, 1921, was \$105,000. Today prevailing conditions have raised the amount for a corresponding time to \$155,000.00. This increase of about 43%, while large, compares favorably with the other cities and towns in the state, where the increase has been placed at 50%. For the current year, the general expenses for "Outside Aid" will be over \$200,000.00. This peculiar situation has not affected the expenditures at the City Home, where the allotted appropriation will be sufficient to go through the year.

The question of caring for needy families in their homes is one which has caused much distress to those engaged in the work, and up to date has baffled all plans and exhausted all solutions. As yet nothing practical has been inaugurated. During the winter season nothing can be expected from outside work which usually is the means of sustenance for the upwards of four hundred families now dependent upon the City Treasury for support.

Until such time as general relief is given by the resumption of business under normal conditions, we must face the problem and solve it as best we can, in justice, both to the less fortunate and to the tax-payers.

FIRE DEPARTMENT

The complete motorization of the Fire Department has brought considerable satisfaction to our fellow-citizens. We are now possessed of a force equipped with the most modern fire fighting apparatus obtainable. There remains but two things, to secure for our department the highest rating of the National Board of Fire Underwriters—first, the erection of a drill tower, and second, the alteration of the fire houses to make the apparatus floors fire-proof.

Modern fire apparatus requires a degree of skill in its operation which unless acquired, spells disaster for the apparatus and failure to reach the scene of a fire on the part of the men. With a well-equipped repair shop, and a school properly officered, much of the fault now found with the department for failure to handle equipment efficiently can be easily overcome.

The enforcement of the garage regulations by the city compelled many garage owners, in some instances, much against their wishes, to properly protect their buildings. The city has failed to

enforce these regulations against itself, a condition which no longer should continue and I recommend that the work of making alterations on our present fire-houses should begin at once.

CITY HOSPITAL

Proper facilities for the care of the sick is an obligation that it would be unpardonable for the community to neglect. The new wing of the Municipal Hospital, but just completed, should be equipped for immediate use in view of the fact that the waiting patient list is greatly in excess of our present accommodations. Laxity in this regard would be to fail inexcusably in public duty. I urge upon the City Council the humanitarian need of prompt action in providing the funds necessary to equip the Hospital Annex for public service.

HOUSING SHORTAGE

For several years up to 1917 the average number of families housed in Cambridge by the erection of new dwellings were four hundred. During the past year homes have been built for only thirty-five families. It is impossible under such conditions for Cambridge to cultivate growth in population. Homes are vitally necessary from every aspect, but especially in fostering a healthy progress in local industry.

In the building of homes it is of prime importance that safety should not be ignored. An amendment of the building ordinances, permitting the erection of three family dwellings with rational restrictions has my full approval as one of the best means of solving our housing problems, and I would welcome suggestions in this regard from any and every source.

DISPOSAL OF MUNICIPAL WASTE

The problem of obtaining disposal areas for the purpose of depositing street sweepings, house ashes and general waste has now reached the stage where it is imperative that definite action be taken. The first step in this direction will be a complete and comprehensive survey of such vacant lands as will meet the requirements of the department. This should give areas and an estimate of their capacity together with their valuation. This ground was covered to some extent a few years ago but as conditions have changed since that time it would be advisable to make new investigations.

If, after this subject has been thoroughly studied, it is found that the expense of rental or acquisition is too great or the cost of collection would be too largely increased by their inaccessibility, I recommend that the question of disposal by scows towed and dumped into deep water be again taken up and a report made in detail of its feasibility.

STREET DEPARTMENT

The bridges across Broad Canal are structurally unfit and inadequate for the traffic which they have to carry at present, and should be replaced by suitable structures of a permanent character. The First Street Bridge in my opinion requires immediate attention, and I recommend the erection of a concrete structure with a rolling lift draw at this point. The present is a very favorable time to have this work done, owing to the low price of steel and the scarcity of work at the bridge works.

SCHOOLS

A word in regard to schools and education is always timely.

Overcrowding in many of our school buildings is a problem that must no longer go unsolved. This overcrowding has made necessary the use of school halls for class purposes. In many of our buildings two classes occupy the same room, while in others, no kindergarten classes can be organized for lack of space to take care of them.

To meet this situation will require the erection of at least three or four new buildings. Owing to largely increased building costs, we have delayed taking care of this matter, but I feel that any further delay can only be prejudicial to the health and education of the children affected.

Recognizing the importance of this matter, I intend, forthwith, to recommend an appropriation so that the work may commence at the earliest possible moment and end our lack of adequate school housing facilities.

HIGH PRESSURE SYSTEM

Adequate fire protection in a city of our size requires a high pressure water system in the industrial and mercantile districts. It is a pleasure for me to announce that the expense connected with

such an undertaking would be greatly reduced as the result of a very generous offer made by the Massachusetts Institute of Technology, in a communication dated Oct. 28, 1921. Under the terms of this proposal, if the city will lay a twelve-inch water main through the industrial section, where the greatest fire hazard exists, Technology will allow these mains to be connected with its high pressure service system, so that we would have available a pressure of 150 lbs. to the square inch, capable of delivering 7000 gallons of water per minute. This offer if accepted would eliminate the necessity of building and maintaining a high pressure station, thus saving the city not only a large initial expense but a considerable yearly outlay for operation. I cannot let this opportunity pass without expressing as the chief executive of our city, your appreciation and mine, of this fine exhibition of community spirit. I recommend immediate action on this matter, inasmuch as it would assuredly lower our fire insurance rates, and add to the protection of life and property.

INDUSTRIAL DEVELOPMENT

The recent decision of the Supreme Court of Massachusetts upholding the action of the Legislature in permitting the use of the East Cambridge river park land for industry opens for study the broad and timely subject of community development. A special act of the Legislature is required to divert land intended for parks to commercial purposes, hence the measure which authorizes a commission of three Cambridge citizens to develop this area for industry. The powers of this commission extend no further than this particular site, and it is plain to be seen that Cambridge has many other spots that are susceptible to improvement both for homes and industry. A city-wide development planned in a comprehensive fashion would add much to our Treasury in increased values.

PROSPECT STREET WIDENING

The proposed construction of a new bridge at the foot of Magazine Street, to be started in the Spring, presents an added problem of traffic congestion through Central Square. The completion of this bridge will make Magazine and Prospect Streets a continuous and vital artery of travel between the northern and southern parts of Metropolitan Boston. Under this coming condition, the widening of Prospect Street seems to be more impera-

tive than ever. I intend to appoint a committee composed of citizens and heads of interested city departments to make a study of the question and submit a report at such a time as will effectually co-operate with the commission in charge of the building of the new bridge.

IMPROVED ADMINISTRATION

There is undeniable logic in the argument that concentration of city department activities spells efficiency. With the progress of the times, the fallacy of using public buildings located in commercial centres is becoming more apparent. There are many places of this description that could be changed with profit.

Here are four glaring examples of the mis-use of valuable locations adapted for trade that are at present in public use, namely, the Central Square City Building, the Brattle Square City Building, the Fire Department Headquarters in Inman Square and the Lafayette Square Fire Station. All of these should be sold for business uses, and an annex added to City Hall to house the various administrative departments at present scattered among these buildings. The reconstruction of the Old Council Chamber into offices on two floors, would also greatly facilitate this work. The fire stations could be replaced by buildings suited to our present needs in view of the complete motorization of that department and the addition of the two platoon system.

RINDGE MEMORIAL

It is now some thirty years since the late Frederick H. Rindge showed a generosity as a public benefactor unparalleled in New England cities. Not only did he donate to the city of his birth a Public Library, a Manual Training School, the land for the High and Latin Schools, but also the beautiful City Hall where we stand today. It would seem to be proper, if somewhat late, to recognize in a fitting way such munificence. I would suggest a memorial to be placed in front of City Hall as a perpetual symbol of our abiding gratitude.

In closing I bespeak the earnest co-operation of my associates in the City Government that we may be stimulated to think and act as public servants, in a way that will enable us not only to win the public respect, but also to deserve it.

I wish you all a Prosperous New Year.

Annual Reports

ANNUAL REPORT OF THE CITY AUDITOR

City Auditor's Office,
April 1, 1922.

To the Honorable, the City Council:—

The undersigned herewith presents a statement of the receipts and payments of the City of Cambridge for the year beginning on the first day of April, 1921, and ending on the thirty-first day of March, 1922.

The first part of this report is devoted to an exhibit arranged upon the Schedules for Uniform Municipal Accounting as issued by the Bureau of Statistics by the Commonwealth of Massachusetts. Following these schedules are presented detailed statements arranged in the same order, together with the usual matters given in the Auditor's report, including a schedule of the city property.

Respectfully submitted,

CHARLES H. THURSTON,
City Auditor.

SCHEDULE A — IV.

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
GENERAL REVENUE			
1. TAXES			
Current Year			
1. Property	\$2,868,265 17		
2. Poll			
Previous Years			
3. Property	671,713 50		
4. Poll			
From the State			
5. Corporation	430,356 05		
6. Street Railway	18,834 57		
7. Bank	30,987 18		
Income Tax	352,876 83		
Total from Taxes.....	\$4,373,033 30		\$4,373,033 30
2. LICENSES AND PERMITS			
Licenses			
8. Liquor			
9. All other	\$9,217 09		
Permits			
10. Marriage	1,965 00		
11. All other			
Total from Licenses and Permits.	\$11,182 09		\$11,182 09
3. FINES AND FORFEITS			
12. Court	\$9,028 55		
13. Department Penalties			
14. Contract Violations	359 30		
Total from Fines and Forfeits....	\$9,387 85		\$9,387 85
Total forward			\$4,393,603 24

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward			\$4,393,603 24
4. GRANTS AND GIFTS			
Grants from Other Civil Divisions			
15. From State, for Education....			
a. Support of Public Schools..			
b. Aid to High Schools.....	\$25,616 97		
c. Aid to Vocational Schools..			
d. High School Tuition.....			
e. Union Superintendency			
f. Americanization foreign born	3,174 97		
16. From State, for Armories.....			
17. From State, for Highway			
Purposes			
18. From State, for other purposes			
a. Inspector of Animals.....			
b. Protection Against Forest			
Fires			
c.			
d.			
19. From County (Dog Licenses),			
Schools or Libraries.....	4,056 67		
Gifts from Individuals			
20. For Expenses	1,891 15		
21. For Outlays			
Total from Grants and Gifts.....	\$34,739 76		\$34,739 76
5. ALL OTHER GENERAL REVENUE			
22.			
23. Sale unclaimed property	\$862 30		
Total from all other General Revenue	\$862 30		\$862 30
Total forward			\$4,429,205 30

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,429,205 30
COMMERCIAL REVENUE			
6. SPECIAL ASSESSMENTS*			
24. Street Sprinkling	\$42 96		
25. Moth Extermination	850 27		
26. Sewers		\$2,750 56	
27. Sidewalks and Curbing.....		7,297 57	
28. Other Purposes			
Total from Special Assessments...	\$893 23	\$10,048 13	\$10,941 36
7. PRIVILEGES			
29. Public Service			
30. Minor			
Total from Privileges.....			
Total forward			\$4,440,146 66

No entries to be made on this page

SEE STATE REPORT

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,440,146 66
8. DEPARTMENTAL			
8a. General Government			
Legislative			
31. Aldermen and Council; Modera- tor			
Executive			
32. Mayor; Commissioner; Select- men			
Financial			
33. Auditor, Accountant, and Aud- iting			
34. Treasurer	\$2,620 90		
35. Collector			
36. Assessors			
37. License Commissioners			
38. Other Finance Offices and Ac- counts			
Other General Departments			
39. Law			
40. City or Town Clerk	2,748 39		
General Government Forward.....	\$5,369 29		
Total forward			\$4,440,146 66

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
1. DEPARTMENTAL			
1a. General Government			
Legislative			
1. Aldermen and Council; Modera-			
tor			
a. Salaries and Wages	\$13,400 00		
b. Other Expenses	15,757 62		
Executive			
2. Mayor; Commission; Selectmen			
a. Salaries and Wages	12,528 57		
b. Other Expenses	2,591 60		
Financial			
3. Auditor, Accountant, and Audit-			
ing			
a. Salaries and Wages.....	8,776 97		
b. Other Expenses	7,377 02		
4. Treasurer			
a. Salaries and Wages.....	23,272 90		
b. Other Expenses	9,377 62		
5. Collector			
a. Salaries and Wages.....			
b. Other Expenses			
6. Assessors			
a. Salaries and Wages.....	21,670 92		
b. Other Expenses	1,406 49	\$916 30	
7. License Commissioners			
a. Salaries and Wages.....	3,443 16		
b. Other Expenses	620 39		
8. Other Finance Offices and Ac-			
counts			
a. Sinking Fund Commissioners	569 94		
b. Miscellaneous	1,400 00		
Other General Departments			
9. Law			
a. Salaries and Wages	5,181 91		
b. Other Expenses	3,268 52		
City or Town Clerk			
a. Salaries and Wages	12,290 62		
b. Other Expenses	1,582 15		
General Government forward			
Total forward	\$144,516 40	\$916 30	

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,440,146 66
General Government forward.....	\$5,369 29		
41. City Messenger			
42. Public Works			
43. Engineering			
44. Superintendent of Buildings..			
45. Election and Registration.....	10 75		
46. Other General Departments...			
Municipal Buildings			
47. City or Town Hall.....	73 70		
Total from General Government...	\$5,453 74		\$5,453 74
Sb. Protection of Persons and Property			
Police Department			
48. Services of Officers	\$6,836 80		
49. Sale of Materials.....			
50. Miscellaneous	14 00		
Protection of Persons and Property forward	\$6,850 80		
Total forward			\$4,445,600 40

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			
General Government forward.....	\$144,516 40	\$916 30	
11. City Messenger			
a. Salaries and Wages	3,136 00		
b. Other Expenses	534 44		
12. Public Works			
a. Salaries and Wages			
b. Other Expenses			
13. Engineering			
a. Salaries and Wages	5,859 97		
b. Other Expenses	1,928 58		
14. Superintendent of Buildings...			
a. Salaries and Wages.....	4,082 00		
b. Other Expenses	2,093 48		
15. Election and Registration			
a. Salaries and Wages.....	15,722 26		
b. Other Expenses	11,529 02		
16. Other General Departments...			
a. Civil Service Labor Regis-			
tration	424 32		
b. Planning Board	4,058 07		
Municipal Buildings			
17. City or Town Hall.....			
a. Salaries and Wages.....	21,982 11		
*b. Other Expenses	18,236 17		
Total for General Government.....	\$233,202 82	\$916 30	\$234,119 12
1b. Protection of Persons and Property			
Police Department			
18. Salaries and Wages.....	\$353,216 08		
19. Horses and Care of Same.....			
*20. Equipment and Repairs.....	3,373 29	676 80	
21. Fuel and Light.....	1,375 19		
22. Maintenance of Buildings and			
Grounds	1,682 33		
*23. New Buildings			
24. Other Expenses	3,309 80		
Protection of Persons and Property			
forward	\$362,956 69	\$676 80	
Total forward			\$234,119 12

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,445,600 40
Protection of Persons and Property forward	\$6,850 80		
Fire Department			
51. Sale of Materials	829 88		
52. Miscellaneous			
Militia			
53. Armories			
54. Rifle Ranges			
Inspection			
55. Inspection of Buildings	4,788 50		
56. Inspection of Wires.....	4,275 02		
57. Sealing of Weights and Meas- ures	812 69		
Forestry			
58. Insect Pest Extermination....	181 00		
59. Planting and Trimming Trees.	106 95		
60. Forest Fires			
Other Protection of Persons and Property			
61. Bounties			
62.			
63.			
Total from Protection of Persons and Property	\$17,844 84		\$17,844 84
Total forward			\$4,463,445 24

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$234,119 12
Protection of Persons and Property forward	\$362,956 69	\$676 80	
Fire Department			
25. Salaries and Wages	312,019 01		
26. Horses and Care of Same.....	2,634 69		
*27. Equipment and Repairs.....	4,157 73	77,038 27	
28. Hydrant Service			
29. Fuel and Light.....	7,868 62		
30. Maintenance of Buildings and Grounds	6,218 74		
*31. New Buildings			
32. Other Expenses	768 22		
Militia			
33. Armories			
34. Rifle Ranges	1,005 02		
Inspection,			
35. Inspection of Buildings	9,498 17		
36a. Inspection of Housing.....	2,000 00		
36. Inspection, Garages and Junk Shops	1,500 00		
37. Sealing of Weights and Meas- ures	8,970 50		
Forestry			
38. Insect Pest Extermination....	5,800 00		
39. Planting and Trimming Trees.	11,797 84		
40. Forest Fires			
Other Protection of Persons and Property			
41. Bounties			
42. Game Warden	50 00		
43. Fire Alarm, Police Telegraph and Inspector of Wires.....	47,389 85	1,595 02	
44. Fire Prevention Acts, 1914, Chapter 795	1,152 28		
Total for Protection of Persons and Property	\$785,787 36	\$79,310 09	\$865,097 45
Total forward			\$1,099,216 57

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,463,445 24
Sc. Health and Sanitation			
Health			
64. Quarantine and Contagious Disease Hospitals	\$4,046 25		
65. Tuberculosis	43,062 15		
66. Miscellaneous			
67. Inspection	406 50		
Sanitation			
68. Sewers and Sewage Disposal..	481 55		
69. Sewer Construction			
70. Refuse and Garbage Disposal.	17,528 07		
71. Street Cleaning			
Other Health and Sanitation			
72.			
73. Suppression Flies and Mosqui- toes	214 90		
Total from Health and Sanitation.	\$65,739 42		\$65,739 42
Total forward			\$4,529,184 66

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$1,099,216 57
1c. Health and Sanitation			
Health			
45. General Administration	\$14,329 24		
*46. Quarantine and Contagious Disease Hospitals	27,271 81		
*47. Tuberculosis	58,017 81		
48. Vital Statistics	846 50		
49. Other Expenses	9,260 80		
a. Abatement smoke nuisance.	657 98		
50. Inspection			
a. Inspection of School Chil- dren	20,822 58		
b. Inspection of Animals....	2,369 34		
c. Inspection of Meat and Pro- visions	3,455 00		
d. Inspection of Milk and Vin- egar	3,693 49		
e. Inspection of Infant Welfare	3,654 59		
Sanitation			
51. Sewer Maintenance and Oper- ation	23,970 66		
52. Metropolitan Sewer Mainte- nance	67,694 08		
*53. Sewer Construction		\$96,360 50	
*54. Refuse and Garbage Disposal.	244,140 80		
*55. Street Cleaning	94,548 89		
Other Health and Sanitation			
*56. Sanitaries and Public Conven- ience Stations			
57. Care of Brooks and Streams..			
58. Draining of Ponds.....			
59. Suppression Flies and Mosqui- toes	2,784 82		
Total for Health and Sanitation...	\$577,518 39	\$96,360 50	673,878 89
Total forward			\$1,773,095 46

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,529,184 66
Sd. Highways			
74. General	\$1,169 54		
75. Construction			
76. Sidewalks and Curbing	2,619 00		
77. Snow and Ice Removal.....			
78. Sprinkling			
a. Water			
b. Other			
79. Lighting			
80. Miscellaneous			
Total from Highways	\$3,788 54		\$3,788 54
Se. Charities			
81. Almshouse or Town Farm....			
a. Sale of Produce and Stock..	\$1,894 46		
b. Board	2,768 64		
c. Miscellaneous	25 92		
82. Reimbursements for Relief Given			
a. From Individuals	175 00		
b. From other Cities and Towns	162 68		
c. From the State	13,245 38		
83. Reimbursements for Mothers' Aid			
a. From Individuals			
b. From other Cities and Towns	2,491 17		
c. From the State	42,198 93		
84. Municipal General Hospitals..	22,991 85		
82. Miscellaneous			
Total from Charities.....	\$85,954 03		\$85,954 93
Total forward			\$4,618,927 23

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$1,773,095 46
1d. Highways			
60. General Administration	\$9,186 48		
61. General Highway Expenditures	216,884 31	\$44,973 30	
*62. Construction		262,173 25	
*63. Sidewalks and Curbing.....	8,907 17	52,369 86	
64. Snow and Ice Removal.....	15,071 23		
*65. Sprinkling			
a. Water	7,385 94		
b. Other	10,930 30		
66. Lighting	82,556 14		
67. Other Expenses			
a. Town Pump			
b. Signs, Guide Boards, and Street Numbering	1,016 75		
c.			
Total for Highways	\$351,938 32	\$359,522 41	\$711,460 73
1e. Charities			
68. General Administration	\$12,258 27		
*69. Almshouse or Town Farm ...	39,438 26		
70. Outside Relief by City or Town	8,917 24		
71. Relief given by Other Cities or Towns	113,639 30		
72. Mothers' Aid			
a. Relief given by City or Town	83,112 97		
b. Relief given by Other Cities and Towns	4,994 36		
*73. Municipal General Hospitals..	77,714 06	\$145,376 07	
74. Other Expenses			
Total for Charities	\$340,074 46	\$145,376 07	\$485,450 53
Total forward			\$2,970,006 72

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,618,927 23
8f..Soldiers' Benefits			
86. State Aid	\$7,801 00		
87. Military Aid	2,670 75		
88. Soldiers' Burials	60 00		
89. Soldiers' Relief			
Total from Soldiers' Benefits.....	\$10,531 75		\$10,531 75
8g. Schools			
90. Tuition and Transportation of State Wards	\$1,941 00		
91. Other Tuition	2,709 25		
92. Sale of Text-Books and Supplies	16,062 77		
93. Miscellaneous			
a. Sales of Food High School Lunch			
b. Fresh Air and Trade School Lunches			
Total from Schools.....	\$20,713 02		\$20,713 02
8h. Libraries			
94. Fines, Rentals, and Sales.....	\$2,321 56		
95. Miscellaneous			
Total from Libraries	\$2,321 56		\$2,321 56
Total forward			\$4,652,493 56

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$2,970,006 72
1f. Soldiers' Benefits			
75. General Administration	\$6,898 00		
76. State Aid	6,816 00		
77. Military Aid	12,747 00		
78. Soldiers' Burials	120 00		
79. Soldiers' Relief	92,846 45		
Total for Soldiers' Benefits.....	\$119,067 45		\$119,067 45
1g. Schools			
80. General Expenses	\$10,320 00		
a. Administrative Salaries ...	432 40		
Smith Hughes Fund	42,275 96		
b. Other General Salaries.....	9,662 11		
c. Other General Expenses ...	946,994 22		
81. Teachers' Salaries	1,482 28		
81. Americanization Foreign Born.	72,889 32		
82. Text-Books and Supplies.....	828 85		
83. Tuition	913 60		
84. Transportation	93 14		
85. Support of Truants	78,879 50		
86. Janitors' Services	44,142 45		
87. Fuel and Light			
88. Maintenance of Buildings and Grounds	48,455 09		
*89. New Buildings			
*90. Furniture and Furnishings ...	1,745 83		
91. Rent			
92. Other Expenses	4,586 33		
Total for Schools	\$1,263,701 08		\$1,263,701 08
1h. Libraries			
93. Salaries and Wages	\$35,434 23		
94. Books, Periodicals, etc.	8,036 18		
95. Binding	3,599 14		
96. Fuel and Light	3,267 72		
*97. Buildings	2,826 28		
98. Other Expenses	1,396 78		
Total for Libraries	\$54,560 33		\$54,560 33
Total forward			\$4,407,335 58

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,652,493 56
81. Recreation			
96. Parks and Gardens			
97. Playgrounds and Gymnasias...	\$2,647 82		
98. Bathhouses and Beaches.....	268 50		
99. Celebrations and Entertain- ments			
Total from Recreation	\$2,916 32		\$2,916 32 .
Total forward			\$4,655,409 88

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$4,407,335 58
11. Recreation			
99. General Administration			
a. Salaries and Wages	\$4,278 00		
b. Other Expenses	2,293 15		
100. Parks and Gardens			
a. Salaries and Wages	33,043 16		
*b. Improvements and Additions			
c. Metropolitan Park Maintenance	74,362 49		
d. Other Expenses	6,786 11		
101. Playgrounds and Gymnasias			
a. Salaries and Wages	6,367 40		
*b. Improvements and Additions		\$19,316 74	
c. Other Expenses	4,330 16		
102. Bathhouses and Beaches			
a. Salaries and Wages	6,877 87		
*b. Improvements and Additions			
c. Other Expenses	1,987 57		
103. Celebrations and Entertainments			
a. Fourth of July	3,059 16		
b. Labor Day	315 63		
c. Band Concerts			
d. All Other	12,108 84		
Total for Recreation	\$155,809 54	\$19,316 74	\$175,126 28
Total forward			\$4,582,461 86

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$4,582,461 86
1j. Pensions			
104. Retirement made from:			
a. Clerk of Committees' Dept..	450 00		
b. City Clerk Dept.	326 25		
c. Treasury Dept.	\$1,872 00		
d. Registrars of Voters Dept..	494 00		
e. Fire Dept.	25,314 85		
f. Police Dept.	10,711 78		
g. Engineering Dept.	341 48		
h. Sewer Dept.	4,458 98		
i. Street Sanitary Dept.....	2,261 48		
j. Street Maintenance Dept...	21,830 73		
k. Boston and Cambridge Bridges Dept.	187 50		
l. License Commission	516 78		
m. Soldiers' Benefits Dept....	350 00		
n. Park Dept.	1,323 92		
o. Cemetery Dept.	723 32		
p. Water Dept.	4,582 01		
q. School Teachers	8,782 30		
r. School Agents and Janitors	4,322 00		
Total for Pensions.....	\$88,849 38		\$88,849 38
1k. Unclassified			
105. Damages to Persons and Per- sonal Property	\$8,238 41		
106. Memorial Day ..'.....	2,309 90		
107. City and Town Clocks.....	104 00		
108. Searching Parties			
109. Ice for Drinking Fountains...			
110. Payments not Recorded under Previous Classifications..			
a. Printing City or Town Re- ports			
b. Postage and Stationery....	565 31		
c. All Other	3,215 78		
d. Investigation of R. T. System	973 16		
Total for Unclassified.....	\$15,406 56		\$15,406 56
Total forward			\$4,686,717 80

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward			\$4,659,430 67
9. PUBLIC SERVICE ENTERPRISES			
102. Electric			
a. Income from Sale of Light and Power			
b. Miscellaneous			
103. Gas			
a. Income from Sale of Gas...			
b. Sale of By-products (coke, tar, etc.).....			
c. Miscellaneous			
104. Water			
a. Income from Sale of Water.	\$423,926 33		
b. Miscellaneous	14,921 08	\$575 00	
105. All Other			
a. Markets			
b. Public Scales			
c. Docks and Wharves.....			
d. Ferries			
e. Herring and Alewife Fish- eries			
f. Miscellaneous			
Total from Public Service Enter- prises	\$438,847 41	\$575 00	\$439,422 41
10. CEMETERIES			
106. Sale of Lots and Graves.....	\$19,689 53		
107. Care of Lots and Graves.....	14,775 71		
108. Care of Endowed Lots (Inter- est on Funds).....	5,899 87		
109. Miscellaneous			
Total from Cemeteries.....	\$40,365 11		\$40,365 11
11. ADMINISTRATION OF TRUST FUNDS			
110.			
111.			
112.			
Total from Administration of Trust Funds			
Total forward			\$5,139,218 19

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward			\$4,686,717 80
2. PUBLIC SERVICE ENTERPRISES			
111. Electric			
a. Maintenance and Operation.			
*b. Construction			
112. Gas			
a. Maintenance and Operation.			
*b. Construction			
113. Water			
a. Maintenance and Operation.	\$350,733 05		
b. Metropolitan Water Maintenance			
*c. Construction		\$454,837 52	
114. All Other			
a. Markets	56 01		
b. Public Sales			
c. Docks and Wharves.....			
d. Ferries			
e. Herring and Alewife Fisheries			
f. Miscellaneous			
Total for Public Service Enterprises	\$350,789 06	\$454,837 52	\$805,626 58
3. CEMETERIES			
115. Maintenance	\$50,795 54		
*116. Improvements and Additions..		\$11,238 76	
Total for Cemeteries.....	\$50,795 54	\$11,238 76	\$62,034 30
4. ADMINISTRATION OF TRUST FUNDS			
117.			
118.			
119.			
Total for Administration of Trust Funds			
Total forward			\$5,554,378 68

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	ndebtedness	Total
Total forward			\$5,139,218 19
12. INTEREST			
113. On Deposits	\$6,753 09	-	
114. On Deferred Taxes.....	62,590 81		
115. On Deferred Special Assess- ments	467 42		
116. On Sinking Funds.....	2,575 00		
117. On Investment Fund.....	.		
118. On Public Trust Funds*.....			
a. Charity			
b. School			
c. Library			
d. Cemetery (for General Care)			
e. All Other			
119. Miscellaneous			
Total from Interest.....	\$72,386 32		\$72,386 32
13. MUNICIPAL INDEBTEDNESS			
120. Loans in Anticipation of Rev- enue		\$3,250,000 00	
121. Other Temporary Loans.....		542,000 00	
122. Loans for General Purposes..			
123.			
124. Loans for Public Service En- terprises		319,000 00	
125. Loans for Cemeteries.....			
126. Bonds Refunded, Current Year			
127. Premiums	\$146 37		
128. Unpaid Warrants or Orders of Current Year			
Total from Municipal Indebtedness	\$146 37	\$4,111,000 00	\$4,111,146 37
Total forward			\$9,322,750 88

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Indebtedness	Total
Total forward			\$5,554,378 68
5. INTEREST			
120. On Loans in Anticipation of Revenue	\$69,306 28		
121. On Other Temporary Loans...			
122. On Loans for General Purposes	339,718 63		
123. On Trust Funds Used.....	1,600 00		
124. On Loans for Public Service Enterprises	38,058 75		
125. On Loans for Cemeteries.....	140 00		
126. Metropolitan Interest Requirements			
a. Sewer	53,638 87		
b. Park	53,645 83		
c. Water			
127. State Assessment for Interest on Account of Abolition of Grade Crossings.....			
128. All Other			
Total for Interest.....	\$556,108 36		\$556,108 36
6. MUNICIPAL INDEBTEDNESS			
129. Loans in Anticipation of Revenue		\$2,700,000 00	
130. Other Temporary Loans.....			
131. Bonds and Notes from Sinking Funds			
a. General		396,500 00	
b. Public Service Enterprises..		30,000 00	
c. Cemeteries		6,000 00	
132. Bonds and Notes from Revenue			
a. General	\$285,300 00		
b. Public Service Enterprises..	20,500 00		
c. Cemeteries			
133. Metropolitan Sinking Fund and Serial Loan Requirements..			
a. Sewer	38,603 22		
b. Park	14,521 88		
c. Water			
134. State Assessment for Abolition of Grade Crossing Loan Fund			
135. Bonds Refunded, Current Year			
136. Warrants or Orders of Previous Years			
Total for Municipal Indebtedness..	\$358,925 10	\$3,132,500 00	\$3,491,425 10
Total forward			\$9,601,912 14

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS		Non- Revenue	Total
Total forward			\$9,322,750 88
14. SINKING FUNDS			
From Commissioners to meet Loans for—			
129. General Purposes		\$389,500 00	
130. Public Service Enterprises....		30,000 00	
131. Cemeteries		8,000 00	
Total from Sinking Funds.....		\$427,500 00	\$427,500 00
		Temporary Accounts	
15. AGENCY, TRUST, AND INVEST- MENT TRANSACTIONS			
Agency			
132. Taxes			
a. State		\$517,669 40	
b. Non-resident Bank		5,481 46	
c. County		214,815 51	
133. Liquor Licenses Collected for the State			
134. Reimbursements for Abolition of Grade Crossings.....			
135. All Other			
a. City Clerk, Hunting and Fishing		603 60	
b. City Clerk, Dog Licenses...		3,321 80	
Trust			
136. Perpetual Care Funds.....		6,185 00	
137. Other Permanent Public Trust Funds		6,018 45	
138. Income for Investment.....			
139. Private Trust Funds and Ac- counts		6,845 08	
Investment			
140. Sinking Fund Securities.....			
141. Investment Fund Securities...			
Total from Agency, Trust, and In- vestment Transactions.....			
Total forward		\$754,921 85	\$754,921 85
			10,505,172 73

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	From Revenue	From Non- Revenue	Total
Total forward			\$9,601,912 14
7. SINKING FUNDS			
To Commissioners for Debt Re- quirements			
137. From Taxes, Earnings, etc....	\$157,872 50		
138. From Special Assessments....			
139. From Sale of Real Estate, etc.			
Total for Sinking Funds.....	\$157,872 50		\$157,872 50
		Temporary Accounts	
8. AGENCY, TRUST, AND INVEST- MENT TRANSACTIONS			
Agency			
140. Taxes		\$508,159 40	
a. State		5,481 46	
b. Non-resident Bank		214,815 51	
c. County			
141. Liquor Licenses Remitted to the State			
142. Abolition of Grade Crossings..			
143. All Other			
a. City Clerk, Hunting and Fishing		610 95	
b. City Clerk, Dog Licenses...		3,254 60	
Trust			
144. Perpetual Care Funds.....		6,185 00	
145. Other Permanent Public Trust Funds			
146. Income Invested			
147. Private Trust Funds and Ac- counts		28,640 46	
Investment			
148. Sinking Fund Securities.....			
149. Investment Fund Securities...			
Total for Agency, Trust, and In- vestment Transactions		\$767,147 38	\$767,147 38
Total forward			10,526,932 02

Schedule A-IV—Concluded

RECEIPTS

SOURCES OF RECEIPTS		Temporary Accounts and Cash Balances	Total
Total forward			10,505,172 73
16. REFUNDS			
142. Taxes		\$16,230 40	
143. Licenses		89 17	
144. Special Assessments		766 07	
145. General Departments		772 40	
146. Public Service Enterprises....			
147. Cemeteries		617 65	
148. Accrued Interest			
149. All Other			
Total Refunds		\$18,475 69	\$18,475 69
17. TRANSFERS			
150. Departmental			
a. Law from Water Dept.....		\$1,000 00	
b Treasury from Water Dept.		1,500 00	
c.			
d.			
e.			
f.			
g.			
h.			
i.			
j.			
Total Transfers		\$2,500 00	\$2,500 00
18. BALANCES			
151. General			
152. Sinking Fund			
153. Investment Fund			
154. Perpetual Care Fund.....			
155. Other Public Trust Fund.....			
156. Private Trust Funds and Ac- counts			
Total Cash on Hand Beginning of Year		\$453,821 06	\$453,821 06
Grand Total Receipts and Cash on Hand			10,979,969 48

Schedule A-IV—Concluded

PAYMENTS

OBJECTS OF PAYMENTS		Temporary Accounts and Cash Balances	Total
Total forward			10,526,932 02
9. REFUNDS			
150. Taxes		\$16,230 40	
151. Licenses			
152. Special Assessments		89 17	
153. General Departments		766 07	
154. Public Service Enterprises....		772 40	
155. Cemeteries			
156. Accrued Interest		617 65	
157. All Other			
Total Refunds		\$18,475 69	\$18,475 69
10. TRANSFERS			
158. Departmental			
a. Water to Law.....		\$1,000 00	
b. Water to Treasury.....		1,500 00	
c.			
d.			
e.			
f.			
g.			
h.			
i.			
j.			
Total Transfers		\$2,500 00	\$2,500 00
11. BALANCES			
159. General			
160. Sinking Fund			
161. Investment Fund			
162. Perpetual Care Fund.....			
163. Other Public Trust Fund.....			
164. Private Trust Funds and Ac- counts			
Total Cash on Hand End of Year..			\$432,061 77
Grand Total Payments and Cash on Hand			10,979,969 48

SCHEDULE A-V.

APPROPRIATIONS, RECEIPTS AND PAYMENTS CITY INCOME

DEPARTMENTAL:

- General Government.
- Protection of Life and Property.
- Health and Sanitation.
- Highways and Bridges.
- Charities.
- Soldiers' Benefits.
- Education.
- Libraries.
- Recreation.
- Unclassified.

PUBLIC SERVICE ENTERPRISES:

- Water Works.
- Cemeteries.

ADMINISTRATION OF INVESTED FUNDS.

INTEREST.

SINKING FUND.

ABATEMENTS, TAXES.

CITY INCOME

Statement in Detail of All Income, Taxes and Loans Received on Account
of the City of Cambridge During the Financial Year 1921-1922

TAXES

Taxes of 1921	\$3,608,222 32	
Taxes of 1920	484,628 11	
Taxes of 1919	181,598 43	
Taxes of 1918	6,625 14	
Taxes of 1917	2,145 78	
Taxes of 1916	571 05	
	<hr/>	\$4,283,790 83
From Commonwealth, for city's proportion of tax on corporations		431,117 59
From Commonwealth, for city's proportion of tax on banks...		31,045 38
From Commonwealth, for city's proportion of Income Tax....		352,876 83
Street Railway Tar		18,889 44

LICENSES AND PERMITS

Building permits	\$4,788 50	
Dance and amusement licenses	1,344 84	
Guides	9 00	
Elevator licenses	99 75	
Electrical permits	4,275 02	
Fireworks (issued by Fire Chief)	17 00	
Hawkers and peddlers (State)	275 00	
Manicure, etc.	120 00	
Milk and vinegar	363 00	
Oleo	43 50	
Street permits	33 00	
Licenses issued by Commissioner and City Clerk:		
Auctioneers'	\$32 00	
Barrel collectors	37 00	
Druggists	42 00	
Firearms	6 00	
Gasoline, garage and inflammable liquid	969 00	
Hearing fee	6 00	
Intelligence office	42 00	
Junk stores and collectors	1,200 00	
Lord's Day	828 00	
Marriages	1,965 00	
Pawnbroker	125 00	
Police minor licenses	14 00	
Pool and private bowling alleys	114 00	
Second hand automobiles.....	1,750 00	
Slaughtering	3 00	
Stands	82 00	
Victuallers	855 00	
Wagon, carriage and drivers ...	161 50	
Peddler	1,035 00	
Miscellaneous	31 00	
	<hr/>	\$11,378 61
		<hr/>
		\$20,666 11
Amount carried forward		\$5,138,386 18

Amount brought forward \$5,138,386 18

COURT FINES

Fines from Third District Court.....	\$8,050 55	
Fines from House of Correction	978 00	
		<u>\$9,028 55</u>

DOG LICENSES FROM COUNTY

From County for Libraries		4,056 67
---------------------------------	--	----------

STREET SPRINKLING ASSESSMENT

Street sprinkling, 1917	14 00	
Street sprinkling, 1916	28 96	
		<u>42 96</u>

MOTH EXTERMINATION ASSESSMENT

Moth essessments, 1921	\$692 40	
Moth assessments, 1920	76 13	
Moth assessments, 1919	77 71	
Moth assessments, 1918	1 56	
Moth assessments, 1917	2 47	
		<u>42 96</u>

LAW DEPARTMENT

Legal advice and service of City Solicitor to Water Department	\$1,000 00	
		<u>1,000 00</u>

CITY CLERKS' DEPARTMENT

Mortgages, assignments, etc.	\$1,810 61	
Certificates from records	357 05	
Dog licenses	300 40	
Married women's certificates	7 75	
Business certificates	51 65	
Cemetery deed	7 00	
Physicians	3 25	
Witness fee	1 05	
Chiropody	50	
Optometry	1 00	
Hunting and fishing fee	162 00	
Soldier's discharge	1 25	
Recording	43 88	
Sale of waste paper	50	
Sale of Ordinances	50	
		<u>1 00</u>
		<u>2,748 39</u>

ELECTION COMMISSION

Sale of waste paper	1 15	
		<u>1 15</u>

ELECTION EXPENSES, CITY CLERKS

Sale of waste paper		9 60
---------------------------	--	------

Amount carried forward	\$5,156,123 77	
------------------------------	----------------	--

Amount brought forward \$5,156,123 77

TREASURER'S DEPARTMENT

For sale:

Preparation	\$134 50	
Advertising	188 60	
Deeds	222 00	
Recording	74 10	
Releases	57 00	
Certificates of liens	472 00	
Affidavits	24 00	
Posting	127 00	
Demand	52 00	
Examination of title	55 00	
Statutory fee	21 00	
Taxes—Summonses	1,205 60	
Services of department in collection of Water rates, etc.	1,500 00	
		<u>4,132 80</u>

CASH VARIATIONS

Accumulations in Treasury Department to March 31, 1922.. 129 64

POSTAGE AND STATIONERY

For stationery furnished to:

Water Department	\$101 48	
Exemption Board	70 79	
		<u>172 27</u>

MUNICIPAL BUILDINGS

Sale of:

Ordinances	\$72 50	
Waste paper, etc.	1 20	
		<u>73 70</u>

FIRE DEPARTMENT

Sale of:

Old hose wagons	\$730 00	
Junk, etc.	99 88	
		<u>829 88</u>

POLICE DEPARTMENT

For services of officers	\$6,836 80	
For sale of:		
Unclaimed property	862 30	
		<u>7,699 10</u>

SEALER OF WEIGHTS AND MEASURES

Fees for sealing 812 69

FORESTRY

Removal of trees	\$106 95	
Moth extermination	181 00	
		<u>287 95</u>

Amount carried forward \$5,170,261 80

Amount brought forward \$5,170,261 80

HEALTH DEPARTMENT

For board at Tuberculosis Hospital:

Sundry persons	\$1,663 50	
Other cities and towns	10,339 00	
Commonwealth	9,412 50	
Subsidy	12,678 65	
United States Public Health Service	8,280 00	
United States Veterans Bureau	705 00	
	<hr/>	43,078 65

Other contagious diseases:

Sundry persons	\$771 00	
Other cities and towns	1,374 00	
Commonwealth	1,872 50	
	<hr/>	4,017 50

Care of rabies:

Sundry persons		28 75
----------------------	--	-------

MUNICIPAL HOSPITAL

For board from sundry persons 23,002 85

SEWER MAINTENANCE

Sale of:

Cement, etc.	\$54 88	
Repairs	335 52	
Miscellaneous	55 70	
	<hr/>	\$446 10

Use of pump	35 45	
	<hr/>	481 55

EXTERMINATION OF FLIES AND MOSQUITOES

Sundry persons 214 90

INCINERATOR

Sundry persons 1,250 00

HOUSE OFFAL

For sale of offal 16,278 07

STREET DEPARTMENT

For rent of track	\$400 00	
Use of signboard	30 00	
Manure	338 07	
Repairing streets	59 75	
Cement, sand, etc.	152 30	
Damages	82 00	
Granite blocks, bricks, etc.	95 18	
Horse	20 00	
Junk, etc.	14 49	
Use of steam roller	37 50	
	<hr/>	1,229 29

Amount carried forward \$5,259,843 36

SIDEWALKS AND DRIVEWAYS

Amount carried forward	\$5,259,843 36
For constructing driveways, etc.	2,559 25

CITY HOME

For board:		
Sundry persons	\$2,768 64	
Sale of bones, grease, etc.	4 28	
Sale of produce	1,894 46	
Miscellaneous	21 64	
		4,689 02

OUTSIDE AID

For reimbursements:		
From cities and towns	\$162 68	
From Commonwealth	13,245 38	
From individuals	175 00	
Mothers' Aid from Commonwealth	42,198 93	
Mothers' Aid from cities and towns	2,491 17	
		58,273 16

SOLDIERS' BENEFITS

From Commonwealth of Massachusetts:		
State Aid	\$7,801 00	
Military Aid	2,670 75	
Burials	60 00	
		10,531 75

SCHOOL DEPARTMENT

From Commonwealth, for Americanization	\$1,501 78	
Vocational schools	25,616 97	
Minor wards	1,941 00	
Tuition of minor wards, City of Boston	424 25	
Tuition of non-resident pupils:		
At High Schools	\$1,128 00	
Rindge Technical School	634 50	
Rindge Evening Industrial.....	502 50	
Agassiz School	20 00	
		2,285 00
Forfeits and deposits	359 30	
Damages collected	81 73	
Equipment for blind classes	500 00	
Sales of food at High School Lunch	13,307 36	
Sales of food at Fresh Air School	14 68	
Sales of food at Cooking School	81 97	
Sales at Continuation School	163 17	
Use of halls for rallies, etc.	136 00	
Use of Rindge School for Harvard Engineering Class	1,250 00	
Text books and supplies	474 91	
Refund on bills	365 91	
Refund on salary	210 76	
Miscellaneous	52 95	
		48,767 74
Amount carried forward	\$5,384,664 28	

SCHOOL BATHS

Amount brought forward	\$5,384,664 28
Sale of soap and use of towels	333 51

LIBRARIES

Fines, rentals, etc.	2,321 56
---------------------------	----------

PARK DEPARTMENT—RENTS, ETC.

For use of Russell Field	\$2,025 00
For land outside of Russell Field	162 00
Use of Towels:	
Rindge Field	\$101 72
Cambridge Field	150 59
	<hr/>
	252 31
Miscellaneous:	
Sale of old bathing suits	268 50
	<hr/>
	2,707 81

TELEPHONE EXCHANGE

Receipts from the Water Department	393 30
--	--------

PENSIONS

Receipts from the Water Department	4,582 01
--	----------

AMERICANIZATION OF FOREIGN BORN

From Commonwealth of Massachusetts	1,673 19
--	----------

GRANTS AND GIFTS

From individuals for celebration of 75th Anniversary	1,458 75
--	----------

WATER DEPARTMENT

Meter rates	\$314,425 48
Annual rates	110,273 25
Miscellaneous bills:	
Off and on	\$110 00
Supply	10,430 31
Seals	28 75
Rent	630 90
Maintenance	3,662 37
Maintenance Building	58 75
	<hr/>
	14,921 08
	<hr/>
	439,619 81

CEMETERY DEPARTMENT

For sale of lots and graves	\$19,714 53
Burials, care, etc.	14,725 71
Interest on Perpetual Care Fund	5,899 87
Perpetual Care	6,185 00
Miscellaneous	50 00
	<hr/>
	46,575 11

Amount carried forward	\$5,884,329 33
------------------------------	----------------

INTEREST

Amount brought forward		\$5,884,329 33
On Deposits	\$6,753 09	
Taxes	62,478 24	
Special assessments	219 29	
Sidewalk assessments (Committed interest) ..	67 13	
Sewer assessments (Committed interest)...	181 00	
Accrued interest	575 20	
From Sinking Fund Commission	2,575 00	
From State, on deferred taxes	155 02	
		<hr/> 73,003 97

SALE OF PUBLIC LAND

Sale of land on Davis Street	1,500 00
------------------------------------	----------

RENT OF LAND—HARVARD COLLEGE

In lieu of taxes	2,400 00
------------------------	----------

RENT OF LAND ON PORTLAND STREET

Rent of city land	50 00
-------------------------	-------

SMITH-HUGHES FUND

From the State to the School Department	432 40
---	--------

SPECIAL RECEIPTS

WATER DEPARTMENT—FILTRATION

Sale of plans and specifications	575 00
--	--------

SEWER ASSESSMENTS

Unapportioned assessments	\$1,800 16	
Apportioned assessments, 1921	61 59	
Apportioned assessments, 1920	379 39	
Apportioned assessments, 1919	509 42	
		<hr/> 2,750 56

EDGESTONES AND SIDEWALKS

Unapportioned assessments	\$6,636 12	
Apportioned, 1921	356 50	
Apportioned, 1920	350 83	
Apportioned, 1919	43 29	
		<hr/> 7,386 74

PREMIUM ACCOUNT

For permium on Municipal Bonds	146 37
--------------------------------------	--------

RECEIPTS FROM LOANS

Street Loans	\$319,000 00	
Building	45,000 00	
Sewer Construction General.....	60,000 00	
Schoolhouse	18,000 00	
Departmental Equipment	55,000 00	
Sewer Separate System	45,000 00	
		<hr/> \$542,000 00
Water	319,000 00	
		<hr/> 861,000 00
Amount carried forward		\$6,833,574 37

TEMPORARY LOANS

Amount brought forward	\$6,833,574 37
In anticipation of taxes	3,250,000 00

COMMISSIONERS OF THE SINKING FUNDS

City Loan	\$15,500 00	
Street Loan	126,000 00	
Charles River Basin	60,000 00	
Library Loan	27,000 00	
Harvard Bridge	60,000 00	
Playground	25,000 00	
Cemetery	8,000 00	
Schoolhouse	76,000 00	
		397,500 00

COMMISSIONERS OF THE WATER SINKING FUNDS

Water Loans	30,000 00
-------------------	-----------

TAX LIEN

Sundry Persons	6,715 44
----------------------	----------

REFUND ON POLL TAXES

Refund on Poll Taxes, from State	9,510 00
--	----------

CITY CLERK'S AGENCY ACCOUNT

Dogs	\$3,321 80	
Hunting	452 85	
Fishing	131 65	
Alien Fishing	4 25	
Alien Hunting	14 85	
		3,925 40
To cash on hand, April 1, 1921		453,821 06

Receipts from Sundry Departmental Refunds Reappropriated:

Executive Department	\$53 16
Election Commission	39 87
Law Department	11 50
Electrical	76
Park Department	438 49
Water Interest	10 00
Pensions	82 20
Sewer Department	53
Treasurer's Department	8 50
Fire Department	45 05
Street Department	84 39
75th Anniversary	20 00
Outside Aid, B-38	53 00
Outside Aid, Mothers' Aid	2,267 61
Outside Aid, Cash Aid	1,630 00
Soldiers' Relief	2,278 48
Hospital	16 29
Interest	56 25
Water Maintenance	231 43

\$7,327 51

\$10,985,046 27

PAYMENTS**GENERAL GOVERNMENT****CITY COUNCIL EXPENSES****Personal Service:**

Salaries of Councillors	\$7,500 00
-------------------------------	------------

Service Other Than Personal:

Printing and binding	\$2,169 73
Postage	634 48
Advertising and posting	1,064 32
Transportation of persons	3,615 69
Cartage and freight	13 09
Rent, taxes, water	32 83
Stenographic, copying, indexing	1,340 80
Fees, service of venires, etc. ..	3,405 65
Photographic and blueprinting.	5 15
General plant	174 72
	<hr/>
	12,456 46

Supplies:

Office	\$994 05
Food and ice	54 79
General plant	35 19
	<hr/>
	1,084 03

Incidental Expenditures:

Funerals, refreshments, etc.	1,946 31
	<hr/>

\$22,986 80

CLERK OF COMMITTEES' DEPARTMENT**Personal Service:**

Permanent employees	\$5,900 00
---------------------------	------------

Service Other Than Personal:

Printing and binding	\$11 76
Postage	25 44
Communication	196 65
	<hr/>
	233 85

Supplies:

Office	112 97
	<hr/>

6,246 82

EXECUTIVE DEPARTMENT**Personal Service:**

Permanent and temporary employees	\$12,528 57
---	-------------

Service Other Than Personal:

Printing and binding	\$119 56
Postage	136 00
Transportation of persons	65 66
Rent, taxes, water	163 80
Communication	350 10
Motor vehicle, repairs and care ..	114 45
Fees, service of venires, etc....	17 00
	<hr/>
	966 57

Amount carried forward	\$13,495 14
------------------------------	-------------

\$29,233 62

General Government—Continued

EXECUTIVE DEPARTMENT—Concluded

Amount brought forward	\$13,495 14	\$29,233 62
Supplies:		
Office	\$436 65	
Food and ice	61 74	
Motor vehicle	736 20	
	<hr/>	1,234 59
Incidental Expenditures:		
Entertainment	390 44	
	<hr/>	15,120 17

AUDITING DEPARTMENT

Personal Service:		
Permanent and temporary employees	8,776 97	
Service Other Than Personal:		
Printing and binding	\$380 24	
Postage	17 43	
Stenographic, copying, indexing	75 00	
	<hr/>	472 67
Equipment:		
Office	417 42	
Supplies:		
Office	\$2,197 30	
Food and ice	59 29	
	<hr/>	2,256 59
	<hr/>	11,923 65

AUDITING SPECIAL

Supplies:		
Office	4,230 34	
	<hr/>	4,230 34

TREASURER'S AND COLLECTOR'S DEPARTMENT

Personal Service:		
Permanent and temporary employees	\$23,272 90	
Service Other Than Personal:		
Printing and binding	\$83 79	
Postage	2,303 68	
Advertising and posting	195 41	
Transportation of persons	674 52	
Premium on surety bond	299 00	
Communication	432 63	
Fees, service of venires, etc. ...	2,962 05	
	<hr/>	6,951 08
Equipment:		
Office	63 70	
Supplies:		
Office	\$2,302 40	
Food and ice	60 44	
	<hr/>	2,362 84
	<hr/>	32,650 52
Amount carried forward		\$93,158 30

General Government—Continued

ADMINISTRATION OF SINKING FUNDS

Amount brought forward..... \$93,158 30

Personal Service:

Salary of Treasurer of Sinking Funds	\$300 00	
Salary of Secretary	200 00	
	<hr/>	500 00

Service Other Than Personal:

Rent of box		55 19
-------------------	--	-------

Supplies:

Office		14 75
	<hr/>	
		569 94

ASSESSOR'S DEPARTMENT

Personal Service:

Permanent and temporary employees	\$19,606 68
---	-------------

Service Other Than Personal:

Printing and binding	\$150 43	
Postage	96 75	
Advertising and posting	96 04	
Transportation of persons.....	654 76	
Cartage and freight.....	69	
Communication	235 98	
	<hr/>	1,234 65

Equipment:

Office		204 08
--------------	--	--------

Supplies:

Office	\$1,139 30	
Food and ice	63 11	
	<hr/>	1,202 41
	<hr/>	22,247 82

LICENSE COMMISSION

Personal Service:

Permanent employees	\$3,443 16
---------------------------	------------

Service Other Than Personal:

Postage	\$22 00	
Communication	112 89	
Fees, etc.....	7 00	
	<hr/>	141 89

Supplies:

Office	\$444 20	
General plant	34 30	
	<hr/>	478 50
	<hr/>	4,063 55

Amount carried forward	\$120,039 61
------------------------------	--------------

General Government—Continued

CITY CLERK'S DEPARTMENT

Amount brought forward \$120,039 61

Personal Service:

Permanent and temporary employees \$12,290 62

Service Other Than Personal:

Printing and binding	\$389 59	
Postage	20 00	
Premium on surety bond	24 00	
Communication	196 65	
Fees, etc.	922 50	
General plant	55 19	
	<hr/>	1,607 93

Equipment:

Office 96 75

Supplies:

Office	\$594 07	
Food and ice	53 90	
	<hr/>	647 97

14,643 27

INSPECTOR OF JUNK SHOPS AND GARAGES

Personal Service:

Permanent employee	\$1,500 00	
	<hr/>	1,500 00

CITY MESSENGER'S DEPARTMENT

Personal Service:

Permanent employees \$3,136 00

Service Other Than Personal:

Postage	\$57 96	
Transportation of persons.....	20 00	
Communication	275 31	
	<hr/>	353 27

Supplies:

Office 181 17

3,670 44

LAW DEPARTMENT

Personal Service:

Permanent and temporary employees \$4,960 00

Service Other Than Personal:

Printing and binding	\$119 42
Postage	157 34
Transportation of persons	42 57
Cartage and freight	79
Rent, taxes, water	750 00
	<hr/>

Amount carried forward..... \$1,070 12

\$139,853 32

General Government—Continued

LAW DEPARTMENT—Concluded

Amount brought forward.....	\$1,070 12		\$139,853 32
Communication	75 00		
Stenographic, copying, indexing	20 00		
Fees, etc.	2,437 56		
Photographic and blueprinting..	21 86		
		3,624 54	
Supplies:			
Office		393 98	
			8,978 52

ELECTION COMMISSION

Personal Service:			
Election officers	\$3,234 00		
Precinct men	185 00		
Janitors at polling places	263 00		
Registrar, Clerk of Board, and Clerk	9,548 00		
Temporary employees	2,492 26		
		15,722 26	
Service Other Than Personal:			
Printing and binding	\$5,415 78		
Postage	304 26		
Advertising and posting	506 70		
Transportation of persons.....	275 32		
Cartage and freight	461 32		
Rent, taxes, water	170 00		
Communication	58 51		
General plant	1,144 73		
		8,336 62	
Equipment:			
Office	\$253 39		
General plant	730 50		
		983 89	
Supplies:			
Office	\$2,016 96		
Food and ice	49 00		
Laundry, cleaning, toilet	8 26		
General plant	134 29		
		2,208 51	
			27,251 28

ENGINEERING DEPARTMENT

Personal Service:			
Permanent employees	\$12,968 00		
Service Other Than Personal:			
Printing and binding	\$133 48		
Postage	9 00		
Transportation of persons	360 10		
Cartage and freight	2 20		
Communication	235 98		
General plant	43 41		
		784 17	
Amount carried forward	\$13,752 17		\$176,083 12

General Government—Continued

ENGINEERING DEPARTMENT—Concluded

Amount brought forward.....	\$13,752 17	\$176,083 12
-----------------------------	-------------	--------------

Supplies:

Office	244 41	
	<hr/>	13,996 58

SUMMARY—EXPENDED

For highways	\$2,809 20
Assessors' plans	729 59
Law Department	221 91
Parks	115 05
Bridges	147 17
Cemetery	335 28
Sidewalks	143 07
Sewers	1,539 99
Water	1,066 77
	<hr/>
	\$7,108 03

General Engineering:

Accounts	\$633 83
General surveys and levels	12 33
Location plans	169 50
Unclassified	1,544 31
City Engineer	3,500 00
	<hr/>
	5,859 97
	<hr/>
	\$12,968 00

ASSESSORS' PLANS

Personal Service:

Service of engineers and assistants	\$100 00	
	<hr/>	\$100 00

INSPECTION OF BUILDINGS

Personal Service:

Permanent employees	\$13,580 17
---------------------------	-------------

Service Other Than Personal:

Printing and binding	\$19 60
Postage	86 74
Transportation of persons	450 00
Rent, taxes, water	131 66
Communication	235 98
Motor vehicle, repairs and care.	187 12
Expert and architect	182 00
Fees, etc.	22 00
General plant	3 14
	<hr/>
	1,318 24

Supplies:

Office	\$350 39
Food and ice	39 69
Motor vehicle	489 16
	<hr/>
	879 24

	<hr/>	15,777 65
--	-------	-----------

Amount carried forward.....		\$205,957 35
-----------------------------	--	--------------

General Government—Continued

CIVIL SERVICE REGISTRATION

Amount brought forward.....		\$205,957 35
Personal Service:		
Permanent employee	\$400 00	
Supplies:		
Office	24 32	
	<hr/>	424 32

MUNICIPAL BUILDING

Personal Service:		
Permanent and temporary employees	21,982 11	
Service Other Than Personal:		
Advertising and posting	\$4 66	
Light and power	2,907 86	
Boiler inspection	32 00	
General plant	5,058 09	
	<hr/>	8,002 61
Equipment:		
General plant	1,434 64	
Supplies:		
Fuel	\$6,758 69	
Laundry, cleaning, toilet	249 02	
Chemicals and disinfectants ...	12 98	
General plant	1,028 23	
	<hr/>	8,048 92
	<hr/>	39,468 28

PROTECTION OF LIFE AND PROPERTY

POLICE DEPARTMENT

Personal Service:		
Salaries and wages	\$353,216 08	
Service Other Than Personal:		
Printing and binding	\$19 60	
Postage	78 00	
Advertising and posting	22 05	
Transportation of persons	726 86	
Cartage and freight.....	87	
Light and power	1,375 19	
Communication	745 18	
Motor vehicle, repairs and care	682 07	
Medical	7 50	
Fees, etc.	10 00	
Photographic and blueprinting.	9 30	
General plant	179 85	
Stenographic, copying, indexing	155 12	
	<hr/>	4,011 59
Amount carried forward.....	\$357,227 67	\$245,849 95

Protection of Life and Property—Continued

POLICE DEPARTMENT—Concluded

Amount brought forward \$357,227 67 \$245,849 95

Equipment:

Furniture and fittings	\$128 38	
Office	242 60	
Tools and instruments	541 81	
General plant	127 20	
Insignia	603 66	
	<hr/>	1,643 65

Supplies:

Office	\$1,376 98	
Food and ice	159 57	
Medical, surgical, laboratory...	8 77	
Laundry, cleaning, toilet	121 60	
Motor vehicle	1,897 71	
General plant	520 74	
	<hr/>	4,085 37

362,956 69

FIRE DEPARTMENT

Personal Service:

Salaries and wages \$312,019 01

Service Other Than Personal:

Printing and binding	\$73 50	
Postage	15 00	
Advertising and posting	6 61	
Transportation of persons.....	150 00	
Cartage and freight	75	
Light and power	895 87	
Communication	93 78	
Motor vehicle repairs and care	1,445 66	
Motorless vehicle repairs	51 88	
Fees, etc.	10 00	
General plant	602 55	
Horseshoeing and clipping	915 33	
	<hr/>	4,260 93

Equipment:

Motor vehicles	\$25,196 18	
Furniture and fittings	83 00	
Office	87 22	
Wearing apparel	38 47	
	<hr/>	25,404 87

Supplies:

Office	\$240 79	
Food and ice	100 57	
Fuel	6,972 75	
Forage and animal	1,667 48	
Laundry, cleaning, toilet	1,229 97	
Motor vehicle	2,534 18	
Chemicals and disinfectants ...	129 42	
General plant	4,303 22	
	<hr/>	17,178 38

358,863 19

Amount carried forward \$967,669 83

Protection of Life and Property—Continued

Amount brought forward \$967,669 83

ELECTRICAL DEPARTMENT

Personal Service:

Permanent and temporary employees..... \$31,711 20

Service Other Than Personal:

Postage	\$30 00	
Advertising and posting	13 23	
Transportation of persons	314 02	
Cartage and freight	8 73	
Light and power	199 50	
Rent, taxes, water	96 00	
Communication	138 87	
Motor vehicle repairs and care.	259 18	
Fees, etc.	38 00	
General plant	25 96	
		<u>1,123 49</u>

Equipment:

Electrical	\$1,471 96	
Office	18 13	
Tools and instruments	23 72	
		<u>1,513 81</u>

Supplies:

Office	\$273 04	
Food and ice	35 00	
Laundry, cleaning, toilet	23 50	
Motor vehicle	1,350 14	
General plant	1,199 02	
		<u>2,880 70</u>

37,229 20

ELECTRICAL DEPARTMENT, EMERGENCY SLEET STORM

Personal Service:

Temporary employees \$2,620 88

Service Other Than Personal:

Cartage and freight	\$32 84	
General plant	292 74	
		<u>\$325 58</u>

Equipment:

Apparatus, cable, wire, etc.	\$6,647 81	
Motor vehicles	360 00	
		<u>7,007 81</u>

Supplies:

Motor vehicle	\$15 68	
Chemicals and disinfectants...	15 82	
General plant	174 88	
		<u>206 38</u>

10,160 65

Amount carried forward \$1,015,059 68

Protection of Life and Property—Concluded

SEALER OF WEIGHTS AND MEASURES

Amount brought forward \$1,015,059 68

Personal Service:

Permanent and temporary employees..... \$7,685 00

Service Other Than Personal:

Printing and binding	\$68 60	
Postage	5 00	
Advertising and posting	8 82	
Transportation of persons	99 89	
Rent, taxes, water	80 85	
Communication	29 03	
Motor vehicle repairs and care.	139 98	
Stenographic, copying, indexing	4 90	
Fees, etc.	26 00	
		<u>463 07</u>

Equipment:

Tools and instruments 67 17

Supplies:

Office	\$91 12	
Motor vehicle	664 14	
		<u>755 26</u>

8,970 50

PARK DEPARTMENT—FORESTRY

Personal Service:

Temporary employees \$15,225 74

Service Other Than Personal:

Advertising and posting	\$2 94	
Cartage and freight	49	
Hire of teams and auto trucks..	1,504 38	
General plant	139 00	
		<u>1,646 81</u>

Supplies:

Office	\$9 06	
Agricultural	275 87	
Chemicals and disinfectants ...	237 96	
General plant	202 40	
		<u>725 29</u>

17,597 84

GAME WARDEN

Personal Service:

Salary of game warden..... \$50 00

50 00

MILITIA, UUSE OF RIFLE RANGE

Use of rifle range at Wakefield \$1,005 02

1,005 02

Amount carried forward \$1,042,683 04

HEALTH AND SANITATION

BOARD OF HEALTH

Amount brought forward \$1,042,683 04

Personal Service:

Medical inspectors	\$2,400 00	
Bacteriologist	1,200 00	
Sanitary inspectors	7,054 34	
Inspector of provisions and slaughtering	3,455 00	
Housing inspector	2,000 00	
Office employees, social workers and driver	8,196 79	
School physicians and school nurses	16,167 91	
Infant welfare nurses	3,553 73	
T. B. Dispensary physician and nurses	3,005 53	
Contagious nurses	2,544 33	
Culture collector	240 00	
		<u>\$49,817 63</u>

Service Other Than Personal:

Printing and binding	\$379 06	
Postage	304 30	
Advertising and posting	31 36	
Transportation of persons	2,100 74	
Hire of teams and auto trucks..	6 86	
Rent, taxes, water.....	337 24	
Communication	295 22	
Motor vehicle repairs and care.	245 14	
Care of persons	23,717 66	
Fees, etc.	49 30	
General plant	19 50	
		<u>27,486 38</u>

Equipment:

Motor vehicles	\$560 75	
Office	39 93	
		<u>600 68</u>

Supplies:

Office	\$1,004 40	
Food and ice	128 49	
Medical, surgical, laboratory...	278 67	
Motor vehicle	459 39	
Chemicals and disinfectants....	214 69	
General plant	94 61	
School inspection	188 40	
Infant welfare	100 86	
		<u>2,469 51</u>

80,374 20

TUBERCULOSIS HOSPITAL

Personal Service:

Permanent and temporary employees.....	\$22,481 16	
--	-------------	--

Amount carried forward	\$22,481 16	<u>\$1,123,057 24</u>
------------------------------	-------------	-----------------------

Health and Sanitation—Continued

TUBERCULOSIS HOSPITAL—Concluded

Amount brought forward \$22,481 16 \$1,123,057 24

Service Other Than Personal:

Printing and binding	\$5 14	
Postage	11 28	
Cartage and freight	14 73	
Light and power	121 51	
Communication	110 17	
Medical	15 00	
Extermination of insects	1 20	
General plant	260 13	
	<hr/>	539 16

Supplies:

Office	\$22 55	
Food and ice	19,658 85	
Fuel	7,993 83	
Medical, surgical, laboratory...	1,267 83	
Laundry, cleaning, toilet.....	464 23	
Agricultural	116 31	
General plant	1,427 44	
	<hr/>	30,951 04
		<hr/>
		53,971 36

INSPECTION OF ANIMALS

Personal Service:

Salary of inspector \$1,700 00

Service Other Than Personal:

Transportation of persons 350 00

Supplies:

Medical, surgical, laboratory.....	319 34	
	<hr/>	2,369 34

INSPECTION OF MILK AND VINEGAR

Personal Service:

Permanent employees \$2,900 00

Service Other Than Personal:

Postage	\$15 00	
Transportation of persons	25 00	
Rent, taxes and water	121 47	
Motor vehicle repairs and care.	92 28	
Testing materials and supplies.	11 60	
Fees, etc.	12 00	
	<hr/>	277 35

Supplies:

Office	\$13 72	
Medical, surgical, laboratory ...	165 83	
Motor vehicle	336 59	
	<hr/>	516 14
		<hr/>
		3,693 49

Amount carried forward \$1,183,091 43

Health and Sanitation—Continued

Amount brought forward \$1,183,091 43

SCHOOL DENTIST

Personal Service:

Permanent employees \$4,244 25

Supplies:

Medical, surgical, laboratory 222 02

4,466 27

SEWER MAINTENANCE

Personal Service:

Permanent and temporary employees \$23,977 90

Service Other Than Personal:

Printing and binding \$13 72

Postage 28 46

Advertising and posting 63 21

Transportation of persons 40 00

Cartage and freight 2 54

Light and power 9 01

Rent, taxes and water 95 84

Communication 71 49

Motor vehicle repairs and care. 1,208 33

Cleaning 207 10

Fees, etc. 22 00

General plant 18 43

1,780 13

Equipment:

Motor vehicles \$788 48

Tools and instruments 42 98

Wearing apparel 101 92

933 38

Equipment:

Office \$56 51

Fuel 182 28

Motor vehicle 3,168 08

General plant 212 06

3,618 93

Materials:

Sewer 628 08

\$30,938 42

SUPPRESSION OF FLIES AND MOSQUITOES

Personal Service:

Temporary employees \$1,842 86

Service Other Than Personal:

Transportation of persons \$20 00

Hire of teams and auto trucks.. 528 00

548 00

Supplies:

General plant 393 96

2,784 82

Amount carried forward \$1,221,280 94

Health and Sanitation—Concluded

STREET DEPARTMENT—SANITARY DIVISION

Refuse and Garbage Disposal

Amount brought forward \$1,221,280 94

Personal Service:

Permanent and temporary employees..... \$235,807 45

Service Other Than Personal:

Advertising and posting	\$11 00	
Motor vehicle repairs and care.	64 58	
Medical	288 25	
Fees, etc.	36 00	
General plant	1,622 86	
		2,022 69

Equipment:

General plant 129 36

Supplies:

Medical, surgical, laboratory...	\$1 65	
Motor vehicle	371 33	
General plant	688 89	
		1,061 87

Special Items:

Workingmen's compensation 5,119 43

244,140 80

HIGHWAYS AND BRIDGES

STREET DEPARTMENT MAINTENANCE

Personal Service:

Permanent and temporary employees \$188,425 72

Service Other Than Personal:

Printing and binding	\$120 45	
Postage	10 00	
Advertising and posting	394 16	
Cartage and freight.....	25 28	
Hire of teams and auto trucks..	10,013 93	
Light and power	508 18	
Communication	196 65	
Motor vehicle repairs and care.	317 55	
Medical	42 00	
Testing materials and supplies.	47 04	
Fees, etc.	47 00	
Boiler inspection	40 00	
General plant	1,467 87	
		13,230 11

Equipment:

Apparatus, cable, wire, etc.	\$358 68	
Tools and instruments	295 54	
Live stock	2,866 50	
Wearing apparel	8 82	
General plant	70 56	
		3,600 10

Amount carried forward \$205,255 93 \$1,465,421 74

Highways and Bridges—Continued

STREET DEPARTMENT MAINTENANCE—Concluded

Amount brought forward \$205,255 93 \$1,465,421 74

Supplies:

Office	\$640 70	
Food and ice	50 47	
Fuel	313 47	
Motor vehicle	3,797 46	
General plant	1,880 94	
	<hr/>	6,682 99

Materials:

Highway	\$17,481 32	
Bridges	2,255 97	
	<hr/>	19,737 29

Special Items:

Workingmen's compensation ...	\$1,249 82	
Contracts for construction where money is derived from taxes:		
Bithulithic repairs	5,344 72	
Repairs—Third Street Bridge	1,948 05	
Repairs—Sixth Street Bridge	1,559 95	
Repairs—Commercial Ave- nue Bridge	29 74	
	<hr/>	10,132 28

241,808 49

STREET DEPARTMENT STABLE ACCOUNT

Personal Service:

Permanent and temporary employees..... \$49,609 26

Service Other Than Personal:

Light and power.....	\$681 67	
Communication	175 21	
Motorless vehicle repairs	70 78	
Medical	87 00	
Veterinary	84 00	
	<hr/>	1,098 66

Equipment:

Medical, surgical, laboratory..... 7 84

Supplies:

Food and ice	\$24 92	
Fuel	2,666 30	
Forage and animal	22,768 56	
Medical, surgical, laboratory ...	2 80	
Chemicals, and disinfectants ...	33 52	
General plant	8,977 67	
	<hr/>	34,473 77

Special Items:

Workingmen's compensation..... 827 14

86,016 67

Amount carried forward \$1,793,246 90

Highways and Bridges—Concluded
BOSTON AND CAMBRIDGE BRIDGES

Amount brought forward \$1,793,246 90

Personal Service:

Permanent and temporary employees..... \$18,845 66

Service Other Than Personal:

Printing and binding	\$59 73	
Transportation of persons	60 00	
Hire of teams and auto trucks..	142 19	
Light and power	3,077 74	
Communication	21 75	
General plant	5,084 66	
		8,446 07

Supplies:

Office	\$9 91	
Food and ice	14 45	
Fuel	136 99	
General plant	233 12	
		394 47

Materials:

Bridges	1,451 85	
		29,138 05

STREET LIGHTING**Service Other Than Personal:**

Lighting streets, alleys and parks.....	\$82,556 14	
		82,556 14

CHARITIES**CITY HOME****Personal Service:**

Permanent and temporary employees..... 16,782 15

Service Other Than Personal:

Postage	\$15 00	
Transportation of persons	349 91	
Hire of teams and auto trucks..	150 00	
Light and power	515 58	
Communication	99 54	
Motorless vehicle repairs.....	9 55	
Care of persons	30 00	
Medical	12 00	
Religious	53 00	
Boiler inspection	85 00	
Burial	68 00	
General plant	240 89	
Harness, etc., repairs	32 73	
Horseshoeing and clipping	68 31	
		1,729 51

Equipment:

Furniture and fittings	\$787 80	
Tools and instruments	10 29	
Wearing apparel	840 73	
		1,638 82

Amount carried forward	\$20,150 48	\$1,904,941 09
------------------------------	-------------	----------------

Charities—Continued

CITY HOME—Concluded

Amount brought forward \$20,150 48 \$1,904,941 09

Supplies:

Office	\$46 12	
Food and ice	11,992 05	
Fuel	3,069 52	
Forage and animal	448 31	
Medical, surgical laboratory ...	589 88	
Laundry, cleaning, toilet	155 24	
Agricultural	443 73	
Chemicals and disinfectants....	106 12	
Tobacco	297 60	
General plant	987 24	
	<hr/>	18,135 81

Materials:

Building	\$442 72
----------------	----------

Special Items:

Care of dependents	\$709 25
--------------------------	----------

39,438 26

OUTSIDE AID

Personal Service:

Permanent and temporary employees	\$11,935 00
---	-------------

Service Other Than Personal:

Printing and binding	\$31 11	
Postage	32 10	
Transportation of persons	1,560 23	
Light and power	36 21	
Rent, taxes and water	124 46	
Communication	126 02	
Motor vehicle repairs and care.	119 24	
Care of persons	1,975 99	
Medical	5 00	
Fees, etc.	11 00	
Burial	77 00	
General plant	32 77	
	<hr/>	4,131 13

Equipment:

Office	\$265 99	
Wearing apparel	675 56	
	<hr/>	941 55

Supplies:

Office	\$248 33	
Food and ice	22,543 30	
Fuel	1,323 36	
Medical, surgical, laboratory ...	942 81	
Motor vehicle	124 50	
General plant	11 31	
	<hr/>	25,193 61

Special Items:

Care of dependents	\$92,613 52	
Mothers' aid	88,107 33	
	<hr/>	180,720 85

222,922 14

Amount carried forward \$2,167,301 49

MUNICIPAL HOSPITAL

Charities—Continued

Amount brought forward \$2,167,301 49

Personal Service:

Permanent and temporary employees	\$32,743 22
Postage	\$10 00
Advertising and posting.....	18 52
Transportation of persons	27 45
Cartage and freight	108 68
Light and power	4,662 13
Communication	542 31
Cleaning	259 18
Medical	256 00
Examinations	84 00
Fees, etc.	100 76
Boiler inspection	10 00
General plant	723 43
	<hr/>
	6,802 46

Supplies:

Office	\$935 20
Food and ice	\$17,110 60
Fuel	5,861 05
Medical, surgical, laboratory ..	8,237 20
Laundry, cleaning, toilet	859 99
Agricultural	20 19
General plant	4,983 93
	<hr/>
	38,008 16

Incidental Expenditures:

Graduation	160 22
	<hr/>

77,714 06

SOLDIERS' BENEFITS

STATE AID AND SOLDIERS' RELIEF

Personal Service:

Permanent and temporary employees.....	\$5,915 50
--	------------

Service Other Than Personal:

Printing and binding	\$140 87
Postage	50 59
Transportation of persons	170 40
Communication	59 00
Motor vehicle repairs and care.	128 08
Care of persons	497 17
Medical	130 37
Fees, etc.	15 00
	<hr/>
	1,191 48

Equipment:

Apparatus, cable, wire, etc.	148 00
-----------------------------------	--------

Supplies:

Office	\$122 62
Food and ice	60 76
Motor vehicle	257 58
	<hr/>
	440 96

Amount brought forward	\$7,695 94	\$2,245,015 55
------------------------------	------------	----------------

Charities—Concluded

STATE AID AND SOLDIERS' RELIEF—Concluded

Amount brought forward	\$7,695 94	\$2,245,015 55
Special Items:		
State and military aid, soldiers' relief and burials	111,371 51	
Incidental Expenditures:		
Care soldiers' graves	150 00	
		119,217 45

EDUCATION

SCHOOL COMMITTEE EXPENSES

For Administrative salaries	\$10,320 00	
Other general salaries	42,275 96	
Teachers' salaries	947,360 13	
General expense	9,662 11	
Text books and supplies	73,100 08	
Tuition, Industrial Schools	828 85	
Transportation of pupils	913 60	
Support of truants	93 14	
Fuel and light	44,142 45	
Maintenance of buildings and grounds	48,455 09	
Furniture and furnishings	1,745 83	
Other expenses	4,540 58	
Janitors' salaries	78,879 50	
Minor licenses	45 75	
Janitors' pensions	2,372 00	
Attendance officers' pension	525 00	
Agent's pension	1,425 00	
Americanization	1,482 28	
Total		\$1,268,167 35

MAINTENANCE SHOWER BATHS AT THORNDIKE SCHOOL

Personal Service:		
Temporary employees	\$1,561 00	
Supplies:		
Soap, towels and laundry	1,065 02	
		2,626 02

MAINTENANCE SHOWER BATHS AT HAGGERTY SCHOOL

Personal Service:		
Temporary employees	\$1,008 00	
Supplies:		
Soap and laundry	74 67	
		1,082 67
Amount carried forward		\$3,636,109 04

Education—Concluded

MAINTENANCE SHOWER BATHS AT ROBERTS SCHOOL

Amount brought forward \$3,636,109 04

Personal Service:

Temporary employees \$2,047 50

Supplies:

Fuel \$56 92

Soap, towels and laundry 249 33

306 25

2,353 75

LIBRARY AT HAGGERTY SCHOOL

Remodelling room at Haggerty School for library 271 56

REMODELLING SHOWER BATHS AT ROBERTS SCHOOL

Service Other Than Personal:

Contract for remodelling shower
baths \$552 50

Installing shower baths 97 50

Lockers 101 14

Advertising and posting 4 41

General plant 367 96

1,123 51

Supplies:

General plant 40 00

1,163 51

LIBRARIES

CENTRAL LIBRARY AND BRANCHES

Personal Service:

Permanent and temporary employees \$35,434 23

Service Other Than Personal:

Printing and binding \$3,599 14

Postage 308 94

Advertising and posting 2 45

Transportation of persons 25 00

Cartage and freight 52 41

Light and power 982 88

Rent, taxes and water 1,056 40

Insurance 236 90

Communication 306 65

Motor vehicle repairs and care. 59 18

Boilet inspection 10 00

General plant 651 12

7,291 07

Equipment:

Electrical \$93 31

Furniture and fittings 241 82

Office 8 82

343 95

Amount carried forward \$43,069 29 \$3,639,897 86

Libraries—Concluded

CENTRAL LIBRARY AND BRANCHES—Concluded

Amount brought forward \$43,069 29 \$3,639,897 86

Supplies:

Office	\$201 74	
Food and ice	65 82	
Fuel	2,284 84	
Library	7,983 77	
Laundry, cleaning, toilet	99 64	
Motor vehicle	255 92	
General plant	327 79	
	<hr/>	
		11,219 52
		<hr/>
		54,288 77

RECREATION

PARK DEPARTMENT MAINTENANCE

Personal Service:

Permanent and temporary employees..... \$37,206 11

Service Other Than Personal:

Printing and binding	\$200 25	
Postage	89 46	
Advertising and posting	22 54	
Cartage and freight	1 33	
Hire of teams and auto trucks	192 00	
Light and power	69 76	
Lighting streets, alleys and parks	1,080 91	
Rent, taxes and water	235 05	
Communication	261 61	
Motor vehicle repairs and care	395 20	
Fees, etc.	2 00	
Boilet inspection	5 00	
General plant	879 94	
	<hr/>	
		3,435 05

Supplies:

Office	\$218 30	
Food and ice	55 86	
Fuel	829 73	
Laundry, cleaning, toilet	314 57	
Agricultural	454 27	
Motor vehicle	793 28	
Chemicals and disinfectants ...	25 19	
General plant	2,029 05	
	<hr/>	
		4,720 25

Materials:

Highway	\$873 50	
Sewer	30 86	
	<hr/>	
		904 36

Incidental Expenditures:

Refreshments	19 60	
	<hr/>	
		46,285 37

Amount carried forward \$3,740,472 00

Recreation—Continued

FLOATING BATH AT EAST CAMBRIDGE

Amount brought forward \$3,740,472 00

Personal Service:

Temporary employees \$494 09

Service Other Than Personal:

Towing \$117 00
 Lumber and repairs 115 80
 _____ 232 80

726 89

BATH AT GERRY'S LANDING

Personal Service:

Temporary employees \$643 77

Service Other Than Personal:

Setting up and taking down.... \$218 89
 Plumbing repairs 18 87
 Incidentals 31 07
 _____ 268 83

912 60

RINDGE FIELD—NEW BLEACHERS

Personal Service:

Temporary employees \$2,515 88

Service Other Than Personal:

Lumber \$419 01
 Carpenter 627 30
 Chain link fence 88 00
 _____ 1,134 31

3,650 19

RUSSELL FIELD—REPAIRS TO BLEACHERS

Personal Service:

Temporary employees \$337 12

Service Other Than Personal:

Lumber \$108 77
 Carpenter 358 00
 Hardware 681 31
 _____ 1,148 08

1,485 20

RINDGE FIELD—COMPLETION OF LINK FENCE

Contract for fence \$389 06

Amount carried forward \$3,747,635 94

Recreation—Concluded

PLAYGROUNDS MAINTENANCE

Amount brought forward \$3,747,635 94

Personal Service:

Temporary employees \$3,514 40

Service Other Than Personal:

Transportation of persons	\$65 00	
Cartage and freight	11 76	
General plant	312 00	
	<hr/>	388 76

Supplies:

Office	\$41 40	
Educational and recreational ..	933 60	
General plant	2 15	
	<hr/>	977 15

4,880 31

REPAIRS TO LINK FENCE AT HIGH SCHOOL PLAYGROUNDS

Contract for fence \$292 80

292 80

UNCLASSIFIED

POSTAGE AND STATIONERY

For postage and supplies \$666 79

666 79

AMERICANIZATION OF FOREIGN BORN

Service Other Than Personal:

Circulars	\$2 45	
Rent of Hall	28 00	
Lecturer	25 00	
Field Worker	40 00	
	<hr/>	\$95 45

95 45

RECORD OF ENLISTED MEN

Personal Service:

Temporary employees \$403 72

Service Other Than Personal:

Advertising and posting	\$10 29	
Rent, taxes and water.....	41 50	
Photographs of enlisted men ..	672 58	
	<hr/>	724 37

Supplies:

Office	\$7 60	
	<hr/>	1,135 69

1,135 69

Amount carried forward \$3,754,706 98

Unclassified—Continued

DAMAGES TO PERSONS AND PROPERTY

Amount brought forward \$3,754,706 98

Executions of Court:

Injuries from defect in street:

A. L. Stinson, attorney for Agnes M. Fitzgerald	\$225 00	
J. H. Hurley, attorney for Julia A. McCormick	313 23	
Hoy & O'Connell, attorneys for Mary Ellen O'Keefe	200 00	
Samuel Borofsky, attorney for Bessie Gisserman	100 00	
Thomas F. Sullivan, attorney for Charlotte Blevins	300 00	
William P. Higgins, attorney for Grace Levins	750 00	
Healey & Healey, attorney for Beatrice Griffin	250 00	
A. Barr Comstock, attorney for Sadie D. Prettyman	257 43	
John F. Daly, attorney for Sarah Hall	532 78	
		\$2,928 44

From Falling Trees:

William Burns, attorney for Catherine G. McMasters ...	\$325 00	
William J. Drew, attorney for Ginter & Co.	125 32	
		450 32

Reimbursement for overtime (City Clerks Department):

Nellie B. Buckley	\$93 60	
Helen M. Brady	114 66	
Veronica M. Walsh	100 86	
Anna M. Hare	50 89	
		360 01

Judgment for salary as Bridge Commissioner:

William Maguire, attorney for Frederick F. Clauss	\$600 00	
		600 00

Injuries:

From Defect in Sidewalk:

Grace E. Brock	\$100 00
Ada Dwyer	100 00
James F. Smith, Jr.	100 00
Florence Cushman	75 00
Alton H. Livingston, James P. Brennan, attorney	125 00
Emmie A. Dailey	75 00
Laura M. Ford	75 00
Catherine Kelley	50 00

Amount carried forward	\$700 00	\$4,338 77	\$3,754,706 98
------------------------------	----------	------------	----------------

Unclassified—Continued

DAMAGES TO PERSONS AND PROPERTY—Continued

Amounts brought forward	\$700 00	\$4,338 77	\$3,754,706 98
Daniel A. Walsh	28 00		
Catherine Conlon	75 00		
Jennie Kolosky	25 00		
		828 00	
From Defect in Street:			
Max Kabatznick, attorney for Samuel Sherman	\$50 00		
George S. Ryan, attorney for Charles F. Houlihan	50 00		
John P. Fitzgerald	50 00		
Alice Rogers	40 00		
Mary G. Burns	100 00		
Elizabeth Finn	35 00		
Katherine LaFluer	100 00		
Mary E. O'Connell	50 00		
Dora, Horther	250 00		
		725 00	
Injuries:			
From Falling Trees:			
Patrick McGuire	\$200.00		
From Auto Chemical:			
George G. Carrier	22 00		
From Collision of Ambulance with Automobile:			
James R. Gear	50 00		
From Collision with School Depart- ment Automobile:			
Albert F. Mooney	25 00		
From Ambulance of Police Depart- ment:			
Josephine Kovira	50 00		
From Defect in Sleeper School Yard:			
John F. Callahan	25 00		
		372 00	
Reimbursement for Injuries Received While on Duty:			
John Walsh	\$16 50		
Jeremiah F. Reardon	115 00		
Robert E. Mullen	14 00		
George F. Barrington	22 50		
Patrick J. Murphy	22 75		
Edward McCabe	49 75		
		240 50	
Amount carried forward		\$2,165 50	\$3,754,706 98

Unclassified—Continued

DAMAGES TO PERSONS AND PROPERTY—Continued

Amount brought forward	\$2,165 50	\$3,754,706 98
------------------------------	------------	----------------

Damage to Clothing:

Anna Duffy	\$50 00	
Joseph D. O'Brien	25 00	
Alfred S. Roderick	20 00	
Mary McCarthy	25 00	
Joseph Callahan	25 00	
Walter S. French	10 00	
Margaret Rooney	15 00	
Peter Crawley	3 00	
John J. O'Brien	16 00	
Richard H. Stackhouse	20 00	
John R. King	10 00	
Peter J. Lyons	40 00	
	<hr/>	259 00

From Falling Trees:

Frank E. Rowe	\$10 83	
William W. Field	12 15	
	<hr/>	22 98

Damage to Property:

Louis S. Walsh	\$17 43	
Charles McMillan	9 47	
John McIntosh	14 88	
Timothy A. Danehy	175 00	
James J. Powers	3 25	
Cyrus Atwell	22 00	
Geoffry L. Whalen	39 75	
Osman Packard	25 00	
Fred F. Clauss	63 50	
James Haley	40 00	
Haley Brothers	60 00	
Thomas F. Brennan, attorney for Frederick C. Spargo	50 00	
Ira K. Theall	35 00	
Edwin N. Bjornson	25 00	
Joseph Dattoli	22 50	
Joseph Flanagan	20 00	
Charles A. Coolidge	188 84	
St. Mary's Catholic Association.	20 00	
Carl E. Shumway	30 00	
Catherine Kelley	1 25	
James E. Stewart	150 00	
Eugenio Andellie	12 87	
Margaret Walsh	3 50	
John Santora	8 73	
Max Berzon	15 00	
Joseph P. Dias	1 50	
John H. Forest	5 00	
Antonio Voltam	4 00	
J. Austin Corcoran	40 00	
Lewis Chandler	30 00	
	<hr/>	1,133 47

Amount carried forward	\$3,580 95	\$3,754,706 98
------------------------------	------------	----------------

Unclassified—Continued

DAMAGES TO PERSONS AND PROPERTY—Concluded

Amount brought forward		\$3,580 95	\$3,754,706 98
Reimbursement of Discount on Bills:			
Cambridge Electric Light Co.		67 19	
Reimbursement on Tax Sale:			
Harry S. Pitkin		10 00	
Reimbursement of Salary for Work at Public Market:			
J. J. Corcoran	\$52 00		
William H. Lertora	65 00		
Patrick J. Leonard	32 50		
John J. Whelan	32 50		
		182 00	
Reimbursement of Wages (Street Department):			
John Driscoll	\$21 25		
Arthur E. Perkins	21 25		
Eugene Flanagan	17 00		
		59 50	
			\$8,238 41

PLANNING BOARD

Personal Service:

Temporary employees \$3,415 00

Service Other Than Personal:

Expert and architect \$280 00
 Stenographic, copying, indexing 174 84
 Fees, etc. 88 09
 General plant 63 00

605 93

Supplies:

Office 37 14

4,058 07

TELEPHONE EXCHANGE

Service Other Than Personal:

Amount expended in excess of department receipts \$393 30

393 30

MUNICIPAL PENSIONS

Treasury \$1,872 00
 Police 10,711 78
 Sewer 4,458 98
 Boston and Cambridge Bridges 187 50
 City Clerk 326 25

Amount carried forward \$17,556 51 \$3,767,396 76

Unclassified—Continued

MUNICIPAL PENSIONS—Continued

Amounts brought forward	\$17,556 51	\$3,767,396 76
Parks	1,323 92	
Cemetery	723 32	
Street (Maintenance)	21,830 73	
Street (Sanitary Division)	2,261 48	
Water	4,582 01	
School Department (Teachers)	8,782 30	
Clerk of Committees	450 00	
Soldiers' Aid	350 00	
Registrars of Voters	494 00	
Fire Department	25,314 85	
License Commission	516 78	
Engineering Department	341 48	
		84,527 38

SUNDRY PUBLIC CELEBRATIONS

Patriot's Day	\$919 90	
Memorial Day	2,309 90	
Independence Day	3,059 16	
Excursion to Plymouth Tercentenary by American Legion	96 04	
Entertainment of Distinguished Visitors	249 09	
American Library Association Con- ference at Harvard College	150 00	
Labor Day	315 63	
Portuguese Celebration	28 39	
No Accident Week	98 00	
Armistice Day	481 18	
Roosevelt Memorial	47 54	
Foch Celebration	14 70	
	\$7,769 53	7,769 53

SEVENTY-FIFTH ANNIVERSARY

Incidental Expenditures:

Parade, games, refreshments, etc	\$10,024 00	10,024 00
--	-------------	-----------

AMERICAN LEGION HEADQUARTERS

Service Other Than Personal:

For rent of headquarters, American Legion.	\$554 04	554 04
--	----------	--------

POST 30, G. A. R. HEADQUARTERS

Service Other Than Personal:

For rent of headquarters, Post 30	\$400 00	400 00
---	----------	--------

Amount carried forward	\$3,870,671 71	
------------------------------	----------------	--

Unclassified—Concluded

CAPTAIN JAMES McCABE FUND

Amount brought forward		\$3,870,671 71
Amount paid to the widow of James McCabe, fire- man, killed on duty (Chapter 11, Acts 1922)	\$1,030 70	
		<u>1,030 70</u>

PUBLIC MARKET

Service Other Than Personal:

Rent, taxes and water	\$20 00
-----------------------------	---------

Supplies:

Motor vehicle	\$26 21	
General plant	9 80	
		<u>36 01</u>
		56 01

CEMETERIES

CAMBRIDGE CEMETERY

Personal Service:

Permanent and temporary employees	\$43,733 53
---	-------------

Service Other Than Personal:

Printing and binding	\$31 85	
Postage	59 00	
Advertising and posting.....	7 35	
Transportation of persons	143 10	
Cartage and freight	180 14	
Hire of teams and auto trucks..	189 63	
Light and power	74 27	
Premium on surety bond	7 50	
Communication	77 16	
Mootr vehicle repairs and care.	265 79	
Motorless vehicle repairs	13 47	
Blacksmith	21 56	
Fees, etc.	29 00	
General plant	61 49	
Harness, etc., repairs	60 90	
Horseshoeing and clipping	94 08	
		<u>1,316 29</u>

Equipment:

Machinery	\$25 40	
Tools and instruments	54 24	
General plant	149 82	
		<u>229 46</u>

Supplies:

Office	\$254 59	
Food and ice	93 44	
Fuel	173 46	
Forage and animal	233 11	
Agricultural	889 69	
Motor vehicle	354 81	
General plant	2,388 65	
		<u>4,387 75</u>

Amount carried forward	\$49,667 03	\$3,871,758 42
------------------------------	-------------	----------------

Cemeteries—Continued

CAMBRIDGE CEMETERY—Continued

Amount carried forward \$49,667 03 \$3,871,758 42

Materials:

Building	\$110 11	
Highway	4 82	
General plant	396 13	
	<hr/>	
	511 06	
	<hr/>	50,178 09

CEMETERY GRADING

Grading	\$5,034 94	
	<hr/>	5,034 94

MARKERS FOR SOLDIERS' GRAVES

Markers	\$467 45	
	<hr/>	467 45

INTEREST AND MATURING DEBT

INTEREST

For interest on loans in anticipation of taxes....	\$69,881 48	
Saunders Temperance Fund	700 00	
Daniel White Charity Fund	300 00	
Dowse Fund	600 00	
Building Loan	11,236 25	
Cambridge Bridge	61,823 50	
Harvard Bridge	1,460 00	
Commercial Avenue Bridge	2,000 00	
Cambridge Bridge Special	945 00	
Hospital Loan	19,855 00	
Metropolitan Park Assessment	1,592 50	
Public Library Loan	945 00	
Schoolhouse Loan	32,483 88	
Sewer Loan	50,031 25	
Cemetery Loan	140 00	
Park Loan	62,640 00	
Playground Loan	4,972 50	
Charles River Improvement	2,400 00	
Street Loan	78,984 25	
Municipal Loan	4,654 50	
Department Equipment	3,695 00	
	<hr/>	
Total		\$411,340 11
		<hr/>
Amount brought forward		\$4,338,779 01

DETAILS OF SINKING FUNDS
SINKING FUNDS

Amount brought forward \$4,338,779 01

BROOKLINE BRIDGE

Amount of fund, March 31, 1921....	\$6,040 27
Interest, 1921	241 61
Appropriation for 1921	300 00

Amount of fund, March 31, 1922	\$6,581 88
-------------------------------------	------------

CAMBRIDGE BRIDGE

Amount of fund, March 31, 1921	\$395,238 26
Interest, 1921	14,809 53
Interest on account Boston Elevated Railway Company	10,300 00
Appropriation for 1921	9,380 00

Amount of fund, March 31, 1922	429,727 79
-------------------------------------	------------

CAMBRIDGE BRIDGE SPECIAL

Amount of fund, March 31, 1921	\$13,305 81
Interest, 1921	532 23
Appropriation for 1921	560 00

Amount of fund, March 31, 1922	14,398 04
-------------------------------------	-----------

CHARLES RIVER BASIN

Amount of fund, March 31, 1921	\$57,128 33
Interest, 1921	89 13
Appropriation for 1921	5,100 00

Amount of fund, March 31, 1922	\$62,317 46
Less bonds matured	\$60,000.00
Balance to General Fund	2,317 46
	62,317 46

COMMERCIAL AVENUE BRIDGE

Amount of fund, March 31, 1921	\$12,080 61
Interest, 1921	483 22
Appropriation for 1921	600 00

Amount of fund, March 31, 1922	13,163 83
-------------------------------------	-----------

HARVARD BRIDGE

Amount of fund, March 31, 1921	\$108,485 61
Interest, 1921	1,939 40
Appropriation for 1921	1,400 00

	\$111,825 01
Less bonds, matured	60,000 00

Amount of fund, March 31, 1922	51,825 01
-------------------------------------	-----------

Amount carried forward	\$4,338,779 01
------------------------------	----------------

Sinking Funds—Continued

HOSPITAL, ACTS OF 1895

Amount brought forward		\$4,338,779 01
Amount of fund, March 31, 1921	\$71,144 08	
Interest	2,845 76	
Appropriation for 1921	5,250 00	
	<hr/>	
Amount of fund, March 31, 1922		79,239 84

METROPOLITAN PARK ASSESSMENT

Amount of fund, March 31, 1921	\$25,526 76	
Interest	1,021 07	
Appropriation for 1921	920 00	
	<hr/>	
Amount of fund, March 31, 1922		27,467 83

PARK

Amount of fund, March 31, 1921	\$872,278 05	
Interest, 1921	34,891 12	
Appropriation for 1921	23,200 00	
	<hr/>	
Amount of fund, March 31, 1922		930,369 17

PLAYGROUNDS

Amount of fund, March 31, 1921	\$25,629 22	
Interest, 1921	1,025 17	
Appropriation for 1921	1,900 00	
	<hr/>	
Amount of fund, March 31, 1922		28,554 39

IMPROVED SEWERAGE

Amount of fund, March 31, 1921	\$231,115 29	
Interest, 1921	9,244 61	
Appropriation for 1921	7,980 00	
	<hr/>	
Amount of fund, March 31, 1922		248,339 90

SEPARATE SYSTEM OF DRAINAGE

Amount of fund, March 31, 1921	\$89,609 64	
Interest, 1921	3,584 39	
Appropriation for 1921	5,340 00	
	<hr/>	
Amount of fund, March 31, 1922		98,534 03

BOSTON ELEVATED SHARE, CAMBRIDGE BRIDGE

Amount of fund, March 31, 1921	\$257,500 00	
Earnings each year are deducted from Sinking Fund requirement of Cambridge Bridge Loans ..		
	<hr/>	
Amount of fund, March 31, 1922		257,500 00
Amount carried forward		\$4,338,779 01

Sinking Funds—Concluded

GENERAL

Amount brought forward	\$4,338,779 01
Amount of fund, March 31, 1921	\$1,445,455 76
Interest, 1921	62,411 58
Appropriation for 1921	95,942 50
Additional contributions, 1921	2,317 46
	<hr/>
	\$1,606,127 30
Street Bond No. 194 paid—due 1931.	7,000 00
	<hr/>
	\$1,613,127 30
Bonds maturing in 1921	284,500 00
	<hr/>
	\$1,328,627 30
Street Bond No. 194 forward	7,000 00
	<hr/>
Amount of fund, March 31, 1922	\$1,321,627 30

Received

From City Treasurer appropriation from 1921:

Brookline Bridge	\$300 00	
Cambridge Bridge	9,380 00	
Cambridge Bridge, Special	560 00	
Charles River Basin	5,100 00	
Commercial Avenue Bridge	600 00	
Harvard Bridge	1,400 00	
Hospital, Acts of 1895	5,250 00	
Metropolitan Park Assessment.	920 00	
Park	23,200 00	
Playgrounds	1,900 00	
Improved Sewerage	7,980 00	
Separate System of Drainage ..	5,340 00	
General	95,942 50	
	<hr/>	
	157,872 50	
	<hr/>	157,872 50

INTEREST AND MATURING DEBT

MUNICIPAL SERIAL LOANS

For loans that have matured as follows:

Cambridge Bridge	\$2,000 00	
Sewer Construction	10,500 00	
Sewer Separate System	3,000 00	
Street	197,500 00	
Building	20,000 00	
Schoolhouse	13,500 00	
Hospital	15,500 00	
Park	4,000 00	
Playground	1,300 00	
Municipal	1,000 00	
Additional Departmental Equipment	17,000 00	
	<hr/>	\$285,300 00

Amount carried forward	\$4,781,951 51
------------------------------	----------------

PUBLIC SERVICE ENTERPRISES

WATER DEPARTMENT—MAINTENANCE GENERAL

Amount brought forward \$44,781,951 51

Personal Service:

For Salaries of

Superintendent	\$3,500 00
Registrar and Clerk of Water Board	2,700 00
Inspectors and clerks	27,313 56
Labor, permanent	67,778 64
Labor, temporary	57,712 40
Treasurer of Sinking Fund	200 00
Service of City Treasurer in collection of water rates, etc...	1,500 00
Services of City Solicitor	1,000 00

\$161,704 60

Service Other Than Personal:

Printing and binding	\$243 04
Postage	819 09
Advertising and posting	51 08
Transportation of persons	810 00
Cartage and freight	152 71
Light and power	442 02
Rent, taxes and water	2,676 06
Communication	555 18
Motor vehicle repairs and care.	899 20
Motorless vehicle repairs	320 09
Medical	43 88
Blacksmith	416 19
Extermination of insects	90 20
Fees, etc.	59 36
Photographic and blueprinting..	767 66
General plant	1,629 05
Harness, etc., repairs	168 65
Horseshoeing and clipping	959 90
Cleaning main pipe	10,544 46

21,647 82

Equipment:

Electrical	\$8,364 60
Motor vehicles	3,747 50
Motorless vehicles	25 00
Furniture and fittings	29 40
Office	398 81
Tools and instruments	3,384 20
Wearing apparel	49 73

15,999 24

Supplies:

Office	\$1,914 00
Food and ice	1,542 14
Fuel	487 01
Forage and animal	867 33
Laundry, cleaning, toilet	21 79
Motor vehicle	4,355 34
Chemicals and disinfectants	1,008 95
General plant	2,159 35

12,355 91

Amount carried forward \$211,707 57 \$4,781,951 51

Public Service Enterprises—Continued

WATER DEPARTMENT—MAINTENANCE GENERAL—Continued

Amount brought forward \$211,707 57 \$4,781,951 51

Materials:

Water	\$37,797 17	
General plant	665 84	
	<hr/>	38,463 01

Special Items:

Damages	\$631 87	
Serial loans	20,500 00	
Interest	38,058 75	
Pensions and annuities	4,582 01	
Refunds	772 40	
	<hr/>	64,545 03

Incidental Expenditures:

Inspection of plant	\$1,892 72	
Leakage	255 98	
	<hr/>	2,148 70

316,864 31

WATER MAINTENANCE—RESERVOIRS

Personal Service:

For labor—permanent	\$20,174 93	
For labor—temporary	9,622 56	
Unassigned	240 00	
	<hr/>	30,037 49

Service Other Than Personal:

Advertising and posting	\$14 45	
Transportation of persons	25 00	
Cartage and freight	71	
Lighting streets, alleys and parks	11 20	
Rent, taxes and water	171 40	
Communication	137 16	
Motorless vehicle repairs	60 60	
Cleaning	3,047 32	
Blacksmith	14 70	
General plant	922 16	
Harness, etc. repairs	12 69	
Horseshoeing and clipping	209 47	
	<hr/>	4,626 86

Equipment:

Motorless vehicles	\$41 65	
Tools and instruments	106 10	
General plant	31 36	
	<hr/>	179 11

Supplies:

Office	\$16 66	
Fuel	108 99	
Forage and animal	288 33	
Chemicals and disinfectants	29 40	
General plant	832 64	
	<hr/>	1,276 02

Amount carried forward \$36,119 48 \$5,098,815 82

Public Service Enterprises—Concluded

WATER MAINTENANCE—RESERVOIRS—Continued

Amount brought forward \$36,119 48 \$5,098,815 82

Materials:

Water	25 48	
General plant	5,553 62	
	<hr/>	5,579 10
		<hr/>
		41,698 58

WATER DEPARTMENT—REPAIRS TO PAYSON PARK RESERVOIRS

Personal Service:

Unassigned \$10 00

Service Other Than Personal:

Printing and binding	\$122 50	
Advertising and posting	57 13	
Expert and architect	750 00	
	<hr/>	929 63

Supplies:

Food and ice 4 90

Incidental Expenditures:

Entertainment of Water Board and City Government	698 00	
	<hr/>	1,642 53

WATER DEPARTMENT—PUMPING

Personal Service:

For labor—permanent	\$19,414 13	
For labor—temporary	2,760 51	
	<hr/>	22,174 64

Service Other Than Personal:

Advertising and posting	\$11 76	
Transportation of persons	25 00	
Cartage and freight	46 14	
Light and power	119 79	
Lighting streets, alleys and parks	150 96	
Communication	74 26	
Testing materials and supplies	39 20	
Boiler inspection	10.00	
General plant	1,751 49	
	<hr/>	2,228 60

Equipment:

Tools and instruments	\$350 62	
General plant	403 58	
	<hr/>	754 20

Supplies:

Office	\$10 36	
Food and ice	80 73	
Fuel	27,731 09	
Laundry, cleaning, toilet	24 50	
General plant	2,823 29	
	<hr/>	30,669 97

Amount carried forward \$55,827 41 \$5,142,156 93

Public Service Enterprises—Continued

WATER DEPARTMENT—PUMPING—Continued

Amount brought forward \$55,827 41 \$5,142,156 93

Materials:

Water 46 61
 55,874 02

Total Revenue Accounts \$5,198,030 95

GENERAL GOVERNMENT

SEWER DEPARTMENT, CONSTRUCTION GENERAL

Personal Service:

Employees \$73,220 10

Service Other Than Personal, Material, etc.

Bricks	\$773 86	
Cement	3,181 26	
Frames, grates and covers	1,278 21	
Fuel	167 82	
Hose	258 47	
Lumber	1,188 05	
Medical attendance	7 50	
Oil, gasoline, etc	210 11	
Pipes and fittings.....	6,310 06	
Power	175 29	
Rent of derrick	417 54	
Repairs to pavements...\$217 94		
Repairs to pump..... 93 39		
	311 33	
Rubber boots	144 06	
Sand and gravel	1,456 52	
Sharpening tools	330 06	
Steel rods	457 15	
Stone	758 87	
Teaming	886 50	
Tools and miscellaneous supplies	1,411 70	
Traps	307 23	
Use of truck	120 13	
	20,151 72	
Total		\$93,371 82

SPECIAL FUND AND LOAN ACCOUNTS

DEPARTMENTAL EQUIPMENT

Assessor's Department:

Adding machine \$916 30

Police Department:

Motor vehicle 676 80

Amount carried forward \$1,593 10 \$93,371 82

General Government—Continued

DEPARTMENT EQUIPMENT—Continued

Amount brought forward	\$1,593 10	\$93,371 82
Fire Department:		
Tractor drawn Aerial truck	\$16,235 00	
Motor drawn Aerial truck	15,735 00	
Combination pump and hose		
motor car	18,207 09	
Roadster	1,665 00	
	<hr/>	51,842 09
Electrical Equipment:		
Fire alarm boxes	\$195 02	
Roadster	1,400 00	
	<hr/>	1,595 02
Sewer Department:		
Motor vehicles	1,448 69	
Ward Eight Playground:		
Playground equipment	1,166 74	
	<hr/>	
Total		\$57,645 64

HIGHWAYS AND BRIDGES

AUSTIN STREET

Personal Service:		
Employees	\$1,806 59	
Service Other Than Personal, Material, etc.:		
Bitulithic	\$3,360 43	
Fuel	17 00	
Hardware, tools, etc.	65 96	
Lighting	27 98	
Stone	33 01	
Teaming	80 00	
	<hr/>	3,584 38
Total		5,390 97

BRATTLE STREET

Personal Service:		
Employees	\$4,710 39	
Service Other Than Personal, Material, etc.:		
Bitulithic	\$12,376 99	
Fuel	99 79	
Hardware	162 50	
Lighting	21 56	
Teaming	2,504 00	
	<hr/>	15,164 84
Total		19,875 23
Amount carried forward		\$176,283 66

Highways and Bridges—Continued

BRATTLE STREET

Amount brought forward		\$176,283 66
Service Other Than Personal, Material, etc.:		
Hardware, tools, etc.	\$113 45	
Total		113 45

CAMELIA AVENUE

Personal Service:		
Employees	\$1,924 63	
Service Other Than Personal, Material, etc.:		
Stone	\$573 65	
Tar	423 36	
Teaming	645 00	
	<u>1,642 01</u>	
Total		3,566 64

CLARK STREET

Personal Service:		
Employees	\$271 81	
Service Other Than Personal, Material, Etc.:		
Stone	\$808 42	
Tar	509 35	
	<u>1,317 77</u>	
Total		1,589 58

COPLEY STREET

Personal Service:		
Employees	\$782 83	
Service Other Than Personal, Material, Etc.:		
Fuel	\$32 00	
Stone	568 89	
Tar	317 52	
Teaming	85 00	
	<u>1,003 41</u>	
Total		1,786 24

CRAIGIE STREET

Personal Service:		
Employees	\$3,122 05	
Service Other Than Personal, Material, Etc.:		
Bitulithic	10,497 27	
Fuel	73 77	
Hardware, tools, etc.	166 60	
Lighting	2 55	
Teaming	850 00	
	<u>11,590 19</u>	
Total		14,712 24
Amount carried forward		\$198,051 81

Highways and Bridges—Continued

DAVENPORT STREET

Amount brought forward \$198,051 81

Personal Service:

Employees \$546 24

Service Other Than Personal, Material, Etc.:

Fuel	\$58 14	
Stone	900 94	
Tar	304 29	
Teaming	70 00	
		<u>1,333 37</u>

Total 1,879 61

ELLSWORTH PARK

Personal Service:

Employees \$109 00

Service Other Than Personal, Material, Etc.:

Fuel	\$42 27	
Stone	255 51	
Tar	134 94	
		<u>432 72</u>

Total 541 72

FAINWOOD CIRCLE

Personal Service:

Employees \$225 18

Service Other Than Personal, Material, Etc.:

Fuel	\$19 87	
Stone	434 41	
Tar	370 44	
		<u>824 72</u>

Total 1,049 90

FAIRVIEW AVENUE

Personal Service:

Employees \$129 78

Service Other Than Personal, Material, Etc.:

Fuel	\$16 66	
Stone	225 57	
Tar	105 84	
Teaming	100 00	
		<u>448 07</u>

Total 577 85

Amount carried forward \$202,100 89

Highways and Bridges—Continued

FAYERWEATHER STREET

Amount brought forward \$202,100 89

Personal Service:

Employees \$1,716 84

Service Other Than Personal, Material, Etc.:

Fuel	\$48 05	
Lighting	425 32	
Stone	1,968 73	
Tar	1,342 92	
Teaming	390 00	
	<hr/>	4,175 02

5,891 86

GORE STREET

Personal Service:

Employees \$6,612 51

Service Other Than Personal, Material, Etc.:

Bitulithic	\$92 17	
Cutting Blocks	3,624 91	
Fuel	16 66	
Hardware	76 68	
Lighting	103 09	
Sand	733 41	
Stone	17 52	
Teaming	873 00	
	<hr/>	5,537 44

Total 12,149 95

GRIGG STREET

Personal Service:

Employees \$399 48

Service Other Than Personal, Material, Etc.:

Fuel	\$17 00	
Stone	824 63	
Tar	591 38	
Teaming	25 00	
	<hr/>	1,458 01

Total 1,857 49

HARVEY STREET

Personal Service:

Employees \$74 50

Service Other Than Personal, Material, Etc.:

Stone	\$448 82	
Tar	105 84	
Teaming	10 00	
	<hr/>	564 66

Total 639 16

Amount carried forward \$222,639 35

Highways and Bridges—Continued

HUDSON STREET

Amount brought forward \$222,639 35

Personal Service:

Employees \$46 34

Service Other Than Personal, Material, Etc.:

Stone \$430 82
 430 82

Total 477 16

HUBBARD PARK

Personal Service:

Employees \$269 66

Service Other Than Personal, Material, Etc.:

Fuel \$33 34
 Stone 637 69
 Tar 265 80
 936 83

Total 1,206 49

IRVING STREET

Personal Service:

Employees \$560 05

Service Other Than Personal, Material, Etc.:

Fuel \$32 36
 Stone 1,329 72
 Tar 635 04
 Teaming 10 00
 2,007 12

Total 2,567 17

KENDALL SQUARE

Personal Service:

Employees \$21,648 56

Service Other Than Personal, Material, Etc.:

Cement \$4,051 16
 Cutting blocks 2,984 60
 Fuel 52 74
 Gravel and sand 3,451 53
 Inspection of boiler 5 00
 Hardware, tools, etc. 661 88
 Lighting 181 01
 Lumber 24 23
 Teaming 3,540 00
 14,952 15

Total 36,600 71

Amount carried forward \$263,490 88

Highways and Bridges—Continued

LINCOLN STREET

Amount brought forward \$263,490 88

Personal Service:

Employees \$426 96

Service Other Than Personal, Material, Etc.:

Fuel	\$86 43	
Stone	877 35	
Tar	793 80	
Teaming	60 00	
		<u>1,817 58</u>

Total 2,244 54

LINNAEAN STREET

Personal Service:

Employees \$2,196 68

Service Other Than Personal, Material, Etc.:

Bitulithic	\$17,779 00	
Fuel	41 40	
Hardware, tools, etc.	23 39	
Stone	119 62	
Teaming	425 00	
		<u>18,388 41</u>

Total 20,585 09

MARCELLA STREET

Personal Service:

Employees \$195 13

Service Other Than Personal, Material, Etc.:

Fuel	\$40 38	
Stone	381 94	
Tar	423 36	
		<u>845 68</u>

Total 1,040 81

MOORE STREET

Personal Service:

Employees \$159 06

Service Other Than Personal, Material, Etc.:

Fuel	\$39 63	
Stone	224 15	
Tar	105 84	
Teaming	60 00	
		<u>429 62</u>

Total 588 68

Amount carried forward \$287,950 00

Highways and Bridges—Continued

MUNROE STREET

Amount brought forward \$287,950 00

Personal Service:

Employees \$14,006 57

Service Other Than Personal, Material, Etc.:

Cement	\$681 40	
Cutting blocks	4,128 63	
Fuel	53 68	
Freight	3 09	
Hardware, tools, etc.	256 81	
Oil	30 82	
Sand	200 94	
Use of horses	650 00	
Teaming	1,780 00	
	<hr/>	7,785 37

Total 21,791 94

ORCHARD STREET

Personal Service:

Employees \$460 21

Service Other Than Personal, Material, Etc.:

Fuel	\$43 00	
Stone	1,708 82	
Tar	991 33	
	<hr/>	2,743 15

Total 3,203 36

OXFORD STREET

Personal Service:

Employees \$432 35

Service Other Than Personal, Material, Etc.:

Fuel	\$51 27	
Stone	380 92	
Tar	132 30	
Teaming	105 00	
	<hr/>	669 49

Total 1,101 84

PIONEER STREET

Personal Service:

Employees \$84 25

Service Other Than Personal, Material, Etc.:

Binder	\$41 16	
Fuel	17 00	
Stone	150 91	
Tar	140 24	
	<hr/>	349 31

Total 433 56

Amount carried forward \$314,480 70

Highways and Bridges—Continued

POPLAR STREET

Amount brought forward \$314,480 70

Personal Service:

Employees \$280 31

Service Other Than Personal, Material, Etc.:

Stone \$535 35

Tar 211 68

Teaming 230 00

977 03

Total 1,257 34

RAYMOND STREET

Personal Service:

Employees \$205 50

Service Other Than Personal, Material, Etc.:

Stone \$881 34

Tar 528 71

1,410 05

Total 1,615 55

RINDGE AVENUE

Service Other Than Personal, Material, Etc.:

Teaming \$55 00

Total 55 00

ROSELAND STREET

Personal Service:

Employees \$289 34

Service Other Than Personal, Material, Etc.:

Fuel \$77 44

Stone 935 34

Tar 436 59

1,449 37

Total 1,738 71

SCHOOL STREET

Personal Service:

Employees \$416 39

Service Other Than Personal, Material, Etc.:

Fuel \$76 22

Stone 1,240 96

Tar 943 30

2,260 48

Total 2,676 87

Amount carried forward \$321,824 17

Highways and Bridges—Continued

SECOND STREET

Amount brought forward		\$321.824 17
Service Other Than Personal, Material, Etc.:		
Hardware, tools, etc.	\$100 84	
Total		100 84

SHERMAN STREET

Personal Service:		
Employees	\$4,995 42	
Service Other Than Personal, Material, Etc.:		
Bitulithic	\$18,596 80	
Fuel	45 32	
Hardware, tools, etc.	229 85	
Teaming	1,005 00	
	<u>19,876 97</u>	
Total		24,872 39

SIDNEY STREET

Personal Service:		
Employees	\$850 04	
Service Other Than Personal, Material, Etc.:		
Fuel	\$135 90	
Hardware, tools, etc.	45 57	
Stone	1,633 49	
Tar	1,063 70	
Teaming	95 00	
	<u>2,973 66</u>	
Total		3,823 70

SUMNER ROAD

Personal Service:		
Employees	\$224 64	
Service Other Than Personal, Material, Etc.:		
Fuel	\$17 00	
Stone	1,186 42	
Tar	819 77	
	<u>2,023 19</u>	
Total		2,267 83

TANNERY STREET

Service Other Than Personal, Material, Etc.:		
Fuel	\$26 66	
Stone	1,524 43	
Tar	992 25	
	<u>2,543 34</u>	
Total		2,543 34
Amount carried forward		\$355,432 27

Highways and Bridges—Continued

UNION STREET

Amount brought forward \$355,432 27

Personal Service:

Employees \$186 37

Service Other Than Personal, Material, Etc.:

Fuel \$17 00

Stone 362 22

Tar 264 60

Teaming 60 00

703 82

Total 890 19

WALDEN STREET

Personal Service:

Employees \$4,444 35

Service Other Than Personal, Material, Etc.:

Bitulithic \$25,328 99

Cinders 19 60

Fuel 149 43

Hardware, tools, etc. 337 43

Lighting 145 53

Lumber 72 52

Stone 240 34

Teaming 1,430 00

27,723 84

Total 32,168 19

WAVERLY STREET

Personal Service:

Employees \$264 63

Service Other Than Personal, Material, Etc.:

Stone \$518 39

Tarvia 398 48

Teaming 10 00

926 87

Total 1,191 50

WENDELL STREET

Personal Service:

Employees \$1,022 66

Service Other Than Personal, Material, Etc.:

Fuel \$71 95

Hardware, tools, etc. 29 15

Lighting 53 51

Stone 2,624 71

Tar 1,690 50

Teaming 335 00

4,804 82

Total 5,827 48

Amount carried forward \$395,509 63

Highways and Bridges—Continued

THIRD, SIXTH AND COMMERCIAL AVENUE BRIDGES

Amount brought forward		\$395,509 63
Repairs	\$14,204 67	
Total		4,204 67

CAMBRIDGE BRIDGE

Repairs	\$433 62	
Total		433 62

SUNDRY STREETS FROM FIVE YEAR BALANCES

Service Other Than Personal, Material, Etc.:

Oil	\$1,382 78	
Sand	1,368 01	
Tar	7,335 63	
Total		10,086 42

EDGESTONES AND SIDEWALKS

Personal Service:

Employees	\$26,942 52	
-----------------	-------------	--

Service Other Than Personal, Material, Etc.:

Allowance on granolithic walks.	\$717 68	
Bricks	5,190 30	
Edgestone	12,505 40	
Hardware, tools, etc.	328 43	
Lighting	356 14	
Lumber	29 63	
Sand and gravel	1,365 30	
Walks, Cambridge Common	1,551 39	
Teaming	3,240 00	
		25,284 27

Total		52,226 79
-------------	--	-----------

MUNICIPAL HOSPITAL

Advertising	\$65 04	
Architects fee	4,018 34	
Automobile service	15 68	
Building contract	126,356 05	
Cleaning floors, etc.	120 00	
Heating and ventilating	13,227 70	
Painting	1,000 00	
Services of engineer	532 67	

Total		\$145,376 07
-------------	--	--------------

Amount carried forward		\$607,837 20
------------------------------	--	--------------

LAND ON CAMBRIDGE STREET

Amount brought forward		\$607,837 20
Examination of title	\$150 00	
Total		150 00

LAND ADJOINING HIGH SCHOOL

Land taken by the City	\$18,000 00	
Total		18,000 00

MUNICIPAL GARAGE

Advertising	\$10 29	
Architect fees	2,438 10	
Building contract	34,439 15	
Electrical supplies	1,394 97	
Gas tank and pump	335 16	
Hardware, tools, etc.	1,323 71	
Heating and plumbing	4,350 00	
Moving building in yard	161 70	
Pulleys, belts, etc.	374 02	
Treating floors	137 20	
Labor	15 00	
Total		44,979 30

OFFICE BUILDING AND CHAPEL AT CEMETERY

Advertising	\$7 35	
Architect's fee	435 64	
Building contract	5,425 55	
Total		5,868 54

WATER CONSTRUCTION FILTRATION PLANT

Labor (services of engineers)	\$1,532 03	
Advertising	\$122 86	
Committee expenses	66 39	
Contract	291,049 93	
Equipment	135,401 18	
Miscellaneous supplies	29 99	
Photographs	416 41	
Printing	470 40	
Services of expert	24,809 32	
Testing materials	919 41	
Teaming	19 60	
	453,305 49	
Total		\$454,837 52
Total, Special Fund and Loan Accounts		\$1,131,672 56
Amount carried forward		\$1,131,672 56

REFUND OF TAXES

Amount brought forward		\$1,131,672 56
1921 tax	\$1,990 78	
1920	3,361 28	
1919	430 20	
1918	33 00	
1917	30 53	
	<hr/>	\$5,845 79

REFUND OF SIDEWALK ASSESSMENTS

Sundry persons	89 17
----------------------	-------

REFUND MISCELLANEOUS

Interest	\$42 45	
Costs	11 90	
Corporation tax	761 54	
National Bank Tax	58 20	
Public Service	54 87	
	<hr/>	928 96

REFUND ON DEPARTMENT BILLS

Refund of Park Department bill	\$125 00	
Cemetery	25 00	
Tuberculosis Hospital	16 50	
Municipal Hospital	11 00	
	<hr/>	177 50

TAX LIEN

To return to sundry persons	28,360 98
-----------------------------------	-----------

PREMIUM ACCOUNT

Amount paid for certifying and preparing bonds.....	1,400 00
---	----------

CASH VARIATIONS

To indentifictaion of sundry payments	279 48
---	--------

TRUSTEES OF CEMETERY FUND AND DEEDS IN TRUST

Paid to Treasurer, payment of Cemetery funds	6,185 00
--	----------

MATURED FUNDED WATER LOANS

Amount paid for water loans maturing 1921-1922	30,000 00
--	-----------

MATURED FUNDED CITY LOANS

Loans, Municipal	\$15,500 00	
Loans, Street	133,000 00	
Loans, Harvard Bridge	60,000 00	
Loans, School	76,000 00	
Loans, Playground	25,000 00	
Loans, Cemetery	6,000 00	
Loans, Charles River Basin	60,000 00	
Loans, Library	27,000 00	
	<hr/>	402,500 00
Amount carried forward		\$1,607,439 44

Amount brought forward \$1,607,439 44

Note—Street Bond No. 1308, due November 1,
1920, not presented for payment, held in
trust, amounting to \$10,000 00
Cemetery Bond, due July 1, 1921, not
presented for payment, held in trust,
amounting to 2,000 00

TEMPORARY LOANS, TAXES, 1921

Temporary Loans 2,700,000 00

STATE, COUNTY AND METROPOLITAN TAXES, AND SOLDIERS' EXEMPTION

State Tax	\$402,920 00	
State Tax, "Special"	18,994 80	
State Tax, "Civilian War Tax"	95,043 00	
National Bank Tax	5,481 46	
Charles River Basin Tax	17,056 37	
Metropolitan Park Tax	96,090 47	
Metropolitan Sewer Tax	159,936 17	
Alewife Brook Tax	4,355 38	
Abatement of Smoke Tax	657 98	
Boston Elevated Deficit Tax	973 16	
Fire Prevention Tax	1,152 28	
Soldiers' Exemption Tax	711 60	
Charles River Bridge Tax	25,027 98	
County Tax	214,815 51	
		1,043,216 16

SMITH-HUGHES FUND

Amount paid by Commonwealth of Massachusetts	432 40
	<u>\$5,351,088 00</u>

NOTE—A. City Clerk's Agency Account:

Hunting and Fishing Licenses	\$610 95	
Dog Licenses to County	3,254 60	
		3,865 55

NOTE—B. Payments for Sundry Departmental Refunds:

Executive Department	\$53 16
Election Commission	39 87
Law Department	11 50
Electrical Department	76
Park Department	438 49
Water Interest	10 00
Pensions	82 20
Sewer Department	53
Treasurer's Department	8 50
Fire Department	45 05
Street Department	84 39
Seventy-fifth Anniversary	20 00
Outside Aid, Burials	53 00
Outside Aid, Mothers' Aid	2,267 61
Outside Aid, Cash Aid	1,630 00
Soldiers' Relief	2,278 48
Hospital	16 29
Interest	56 25
Water Maintenance	231 43

\$7,627 51

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1921, to March 31, 1922

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer from	Total Appropriations	Total Expenditures	Balances
City Council			\$7,500 00			\$7,500 00	\$7,500 00	
B, C, D, G			7,220 00	\$8,266 80		15,486 80	15,486 80	
Clerk of Committees' Dept.			5,900 00			5,900 00	5,900 00	
B			160 00	73 85		233 85	233 85	
D			75 00	37 97		112 97	112 97	
Executive Department			10,888 00	1,640 57	28 43	12,528 57	12,528 57	
A			995 00			966 57	966 57	
B			800 00	434 59		1,234 59	1,234 59	
D			800 00		409 56	390 44	390 44	
Auditing Department			8,888 00		111 03	8,776 97	8,776 97	
A			365 00	107 67		472 67	472 67	
B				417 42		417 42	417 42	
C				206 59		2,256 59	2,256 59	
D			2,050 00	4,230 34		4,230 34	4,230 34	
Auditing Department, "Special"			21,180 00	2,092 90		23,272 90	23,272 90	
Treasurer and Collector's Dept.			6,634 00	317 08		6,951 08	6,951 08	
A			75 00		11 30	63 70	63 70	
B			1,750 00	612 84		2,362 84	2,362 84	
C			500 00			500 00	500 00	
D			75 00		19 81	55 19	55 19	
Administration Sinking Funds				14 75		14 75	14 75	
Assessors' Department			19,089 00	508 68		19,606 68	19,606 68	
A			1,110 00	124 65		1,234 65	1,234 65	
B				204 08		204 08	204 08	
C			650 00	552 41		1,202 41	1,202 41	
D			3,478 00		34 84	3,443 16	3,443 16	
License Commission			81 00	60 89		141 89	141 89	
A			540 00		61 50	478 50	478 50	
City Clerk's Department			12,024 00	266 62		12,290 62	12,290 62	
A			1,212 00	395 93		1,607 93	1,607 93	
B			75 00	21 75		96 75	96 75	
C			550 00	97 97		647 97	647 97	
D			1,500 00			1,500 00	1,500 00	
Inspection of Garages			3,136 00			3,136 00	3,136 00	
City Messenger's Department			280 00	73 27		353 27	353 27	
A			125 00	56 17		181 17	181 17	
B			4,918 00	42 00		4,960 00	4,960 00	
D			1,945 00	1,679 54		3,624 54	3,624 54	
Law Department			200 00	193 98		393 98	393 98	
Election Commissioners			16,098 00		375 74	15,722 26	15,722 26	
A			10,380 00		2,043 38	8,336 62	8,336 62	
B			250 00	733 89		983 89	983 89	
C			868 00	1,340 51		2,208 51	2,208 51	
D								
Carried Forward			\$154,373 00	\$24,805 71	\$3,095 59	\$175,083 12	\$176,083 12	

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1921, to March 31, 1922

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer from	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward			\$154,373 00	\$24,805 71	\$3,095 59	\$176,083 12	\$176,083 12	
Engineering Department			13,584 00		616 00	12,968 00	12,968 00	
			490 00	294 17		784 17	784 17	
			150 00	94 41		244 41	244 41	
Assessors' Plans				100 00		100 00	100 00	
Inspection of Buildings			13,790 00		209 83	13,580 17	13,580 17	
			851 00	467 24		1,318 24	1,318 24	
			500 00	379 24		879 24	879 24	
Civil Serv. Labor Registration			400 00			400 00	400 00	
			25 00		.68	24 32	24 32	
Municipal Buildings			22,035 00		52 89	21,982 11	21,982 11	
			5,909 00	2,093 61		8,002 61	8,002 61	
			1,500 00		65 36	1,434 64	1,434 64	
			6,165 00	1,883 92		8,048 92	8,048 92	
Police Department			355,000 00		1,783 92	353,216 08	353,216 08	
			2,580 00	1,431 59		4,011 59	4,011 59	
			850 00	793 65		1,643 65	1,643 65	
			1,577 00	2,508 37		4,085 37	4,085 37	
			305,000 00	7,019 01		312,019 01	312,019 01	
Fire Department			4,465 00		204.07	4,260 93	4,260 93	
			25,250 00	154 87		25,404 87	25,404 87	
			15,975 00	1,203 38		17,178 38	17,178 38	
Elec. Dept. "Emergency Sleet Storm"				10,160 65		10,160 65	10,160 65	
Electrical Department			31,580 00	131 20		31,711 20	31,711 20	
			926 00	197 49		1,123 49	1,123 49	
			150 00	1,363 81		1,513 81	1,513 81	
			2,215 00	665 70		2,880 70	2,880 70	
			7,600 00	85 00		7,685 00	7,685 00	
Sealer of Weights and Meas.			578 00		114 93	463 07	463 07	
			100 00		32 83	67 17	67 17	
			475 00	280 26		755 26	755 26	
Forestry			16,000 00		774 26	15,225 74	15,225 74	
			435 00	1,211 81		1,646 81	1,646 81	
			100 00		100 00			
			1,225 00		499 71	725 29	725 29	
			50 00			50 00	50 00	
Game Warden								
Militia—Use of Rifle Range			49,846 00	1,005 02		1,005 02	1,005 02	
Health Dept. Maint. General		\$5,404 41	14,859 00	7,222 97	28 37	49,817 63	49,817 63	
			90 00	510 68		27,486 38	27,486 38	
			2,025 00	444 51		600 68	600 68	
Carried Forward		\$5,404 41	\$1,058,723 00	\$66,508 27	\$7,578 44	\$1,123,057 24	\$1,123,057 24	

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1921, to March 31, 1922

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer from	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward		\$5,404 41	\$1,058,723 00	\$66,508 27	\$7,578 44	\$1,123,057 24	\$1,123,057 24	
Tuberculosis Hospital			22,684 00		202 84	22,481 16	22,481 16	
			770 00		230 84	539 16	539 16	
			150 00		150 00			
		1,680 38	27,860 00	1,410 66		30,951 04	30,951 04	
Inspection of Animals			1,700 00			1,700 00	1,700 00	
			250 00	100 00		350 00	350 00	
			300 00	19 34		319 34	319 34	
Inspection Milk and Vinegar			2,900 00			2,900 00	2,900 00	
			234 00	43 35		277 35	277 35	
			380 00	136 14		516 14	516 14	
			4,230 00	14 25		4,244 25	4,244 25	
Health Dept., School Dentist			775 00	147 02		222 02	222 02	
			18,600 00	5,377 90		23,977 90	23,977 90	
Sewer Dept. Maintenance			1,750 00	30 13		1,780 13	1,780 13	
			350 00	583 38		933 38	933 38	
			2,340 00	1,278 93		3,618 93	3,618 93	
			600 00	28 08		628 08	628 08	
Suppression Flies, Mosquitoes			2,000 00	784 82		2,784 82	2,784 82	
Street Sanitary, House Offal			195,911 00	39,896 45		235,807 45	235,807 45	
			1,042 00	980 69		2,022 69	2,022 69	
			250 00		120 64	129 36	129 36	
			1,645 00		583 13	1,061 87	1,061 87	
						5,119 43	5,119 43	
Street Dept., Maintenance			179,780 00	5,119 43		188,425 72	188,425 72	
			10,300 00	8,645 72		13,230 11	13,230 11	
			3,100 00	2,930 11		3,600 10	3,600 10	
			4,525 00	500 10		6,682 99	6,682 99	
			25,500 00	2,157 99		19,737 29	19,737 29	
				1,249 82	5,762 71	1,249 82	1,249 82	
			5,000 00	344 72		5,344 72	5,344 72	
			3,000 00	1,559 95	2,970 26	29 74	29 74	
Commercial Ave. Bridge Repairs						1,559 95	1,559 95	
Repairs to Sixth St. Bridge			2,000 00		51 35	1,948 05	1,948 05	
Repairs to Third St. Bridge			53,926 00		4,316 74	49,609 26	49,609 26	
Street Dept., Maint. Stable			1,215 00		116 34	1,098 66	1,098 66	
			25 00		17 16	7 84	7 84	
			36,070 00	827 14	1,596 23	34,473 77	34,473 77	
Carried Forward		\$7,084 79	\$1,669,185 00	\$140,674 39	\$23,697 28	\$1,793,246 90	\$1,793,246 90	

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1921, to March 31, 1922

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer from	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward		\$7,084 79	\$1,669,185 00	\$140,674 39	\$23,697 28	\$1,793,246 90	\$1,793,246 90	
Boston and Cambridge Bridges			18,655 28	190 38		18,845 66	18,845 66	
A			5,945 00	2,501 07		8,446 07	8,446 07	
B			340 00	54 47		394 57	394 57	
D			2,000 00		548 15	1,451 85	1,451 85	
E			78,000 00	4,556 14		82,556 14	82,556 14	
B			17,000 00		217 85	16,782 15	16,782 15	
A			1,850 00		120 49	1,729 51	1,729 51	
B			525 00	1,113 82		1,638 82	1,638 82	
C			19,465 00		1,329 19	18,135 81	18,135 81	
D			50 00	392 72		442 72	442 72	
E			606 00	109 25		709 25	709 25	
F9			12,320 00		385 00	11,935 00	11,935 00	
Overseers of Poor, Outside Aid			4,135 00		3 87	4,131 13	4,131 13	
A			550 00	391 55		941 55	941 55	
B			13,525 00	11,668 61		25,193 61	25,193 61	
C			57,000 00	4,969 85		92,613 52	92,613 52	
D			68,000 00			88,107 33	88,107 33	
F9		30,643 67	33,835 00		1,091 78	32,743 22	32,743 22	
F10		20,107 33	6,986 00	716 46		6,802 46	6,802 46	
Municipal Hospital			375 00		375 00			
A		6,911 79	29,105 00	1,991 37		38,008 16	38,008 16	
B				160 22		160 22	160 22	
C			5,828 00	87 50		5,915 50	5,915 50	
D			980 00	99 21		1,191 48	1,191 48	
G				148 00		148 00	148 00	
A			285 00	65 00		440 96	440 96	
B		90 96	80,000 00		290 00	111,371 51	111,371 51	
C		31,661 51	175 00		25 00	150 00	150 00	
D			1,238,508 58			1,314,562 69	1,268,167 35	\$46,395 34
F8	\$27,286 37	48,767 74	1,500 00	1,126 02		2,626 02	2,626 02	
Care of Soldiers' Graves			750 00	332 67		1,082 67	1,082 67	
School Dept., Salaries, Expenses			750 00	1,603 75		2,353 75	2,353 75	
Thorndike School Baths, Maint.			900 00	263 51		1,163 51	1,163 51	
Maint. Haggerty School Baths				271 56		271 56	271 56	
Repairs to Haggerty School			35,060 00	374 23		35,434 23	35,434 23	
Repairs to Roberts School			6,450 00	841 07		7,291 07	7,291 07	
Repairs to Libarry, Haggerty School			325 00	18 95		343 95	343 95	
Library and Branches			10,325 00	894 52		11,219 52	11,219 52	
A								
B								
C								
D								
Carried Forward	\$27,286 37	\$145,300 06	\$3,420,382 86	\$175,616 29	\$28,083 61	\$3,740,581 97	\$3,694,186 63	\$46,395 34

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1921, to March 31, 1922

Accounts	Revenue	Revenue Reappropriated	Appropriations	Transfer to	Transfer from	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward	\$27,286 37	\$145,300 06	\$3,420,382 86	\$175,616 29	\$28,083 61	\$3,740,581 97	\$3,694,186 63	\$46,395 34
Park Dept. Maintenance			34,000 00	3,206 11		37,206 11	37,206 11	
A			3,304 00	131 05		3,435 05	3,435 05	
B			250 00		250 00			
C			2,245 00	2,475 25				
D			660 00	244 36				
E				19 60				
G								
Park Dept., Floating Bath House			840 00		113 11			
Bath House, Gerry's Landing			700 00	212 60				
Rindge Field Bleachers			3,500 00	150 19				
Russell Field Bleachers			2,000 00		514 80			
Link Fence, Rindge Field			500 00		110 94			
Playgrounds Maintenance			3,700 00		185 60			
A			265 00	123 76				
B			195 00		195 00			
C			925 00	52 15				
D				292 80				
Link Fence, High School Playgrounds			100,000 00	98,694 41	214,903 72			
Reserve Fund		16,209 31						
Postage and Stationery		101,48	2,000 00		1,434 69			
Americanization of Foreign Born		1,673 19		95 45	1,673 19			
Record of Enlisted Men				1,135 69				
Damages to Persons and Property			6,000 00	2,238 41				
Planning Board			4,000 00	58 07				
Telephone Exchange		393 30	3,500 00		3,500 00			
Municipal Pensions		4,582 01	72,498 27	7,447 10				
Sundry Celebrations			5,000 00	2,769 53				
Seventy-fifth Anniversary		1,458 75	5,000 00	3,565 25				
Public Market				56 01				
American Legion Headquarters		800 00			245 96			
G. A. R. Headquarters		400 00						
Captain James McCabe Fund				1,030 70				
Cemeteries			32,402 00	11,331 53				
A			978 00	338 29				
B			575 00		345 54			
C			2,675 00	1,712 75				
D			1,300 00		788 94			
E			3,000 00	2,034 94				
Grading			500 00		32 55			
Markers for Soldiers' Graves			157,872 50					
Sinking Funds			320,650 00		35,350 00			
Serial Loans			438,644 75		27,304 64			
Interest								
Total Budget Expenditures	\$27,286 37	\$169,798 10	\$4,631,262 38	\$315,032 29	\$315,032 29	\$4,828,346 85	\$4,781,951 51	\$46,395 34

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1921, to March 31, 1922

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer from	Total Appropriations	Total Expenditures	Balances
Water Dept. Expenditures:—								
Water Dept., Maint. General			\$157,814 36	\$3,890 24		\$161,704 60	\$161,704 60	\$1,912 18
A			23,560 00			23,560 00	21,647 82	
B			15,050 00	949 24		15,999 24	15,999 24	
C			14,365 00			14,365 00	12,355 91	2,009 09
D			42,100 00			42,100 00	38,463 01	3,636 99
E			3,000 00			3,000 00	631 87	2,368 13
F2			20,500 00			20,500 00	20,500 00	
F4			41,838 75			41,838 75	38,058 75	3,780 00
F5			2,950 50	1,631 51		4,582 01	4,582 01	
F7			500 00			500 00		500 00
F11			5,500 00			5,500 00	772 40	4,727 60
F14			3,500 00			3,500 00	2,148 70	1,351 30
G			31,942 00			31,942 00	30,037 49	1,904 51
Water Dept. Maint. Reservoirs			5,230 00			5,230 00	4,626 86	603 14
A			25 00	154 11		179 11	179 11	
B			1,425 00			1,425 00	1,276 02	
C			11,000 00		\$5,420 90	5,579 10	5,579 10	
D						1,642 53	1,642 53	
E						25,228 00	22,174 64	3,053 36
Water Dept., Repairs Reservoirs			25,228 00			25,228 00	22,174 64	529 89
Water Dept., Maint. Pumping			2,966 00		207 51	2,758 49	2,228 60	
A			500 00	254 20		754 20	754 20	
B			33,610 00		2,940 03	30,669 97	30,669 97	
C				46 61		46 61	46 61	
D								
E								
Totals for Water Dept.			\$442,604 61	\$8,568 44	\$8,568 44	\$442,604 61	\$416,079 44	\$26,525 17

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1921, to March 31, 1922

Accounts	Balances	Receipts	Loans Authorized	Transfer to	Transfer from	Total Appropriations	Total Expenditures	Balances
Remodeling Central Sq. Building	\$77,572 06					\$77,572 06	\$57,645 64	\$77,572 06
Departmental Equipment	7,469 77	\$2,931 56	\$55,000 00	\$13 62		62,469 77	93,371 82	4,824 13
Sewer Construction	7,286 97		90,000 00		\$13.62	100,232 15		6,860 33
Sewer Construction, Separate System	13.62							
Auburn Street	3,098 80					3,098 80		3,098 80
Austin Street	2,989 07		5,000 00		2,598 10	5,390 97	5,390 97	
Brattle Street	536 59		17,000 00	2,338 64		19,875 23	19,875 23	
Brattle Square			22,000 00			22,000 00	113 45	21,886 55
Burleigh Street	1,143 14				1,143 14			
Camelia Avenue	1,000 00			2,566 64				
Clark Street			4,000 00		2,410 42	3,566 64	3,566 64	
Copley Street			2,800 00		1,013 76	1,589 58	1,589 58	
Craigie Street			16,000 00		1,287 76	1,786 24	1,786 24	
Davenport Street			2,800 00		920 39	14,712 24	14,712 24	
Ellsworth Park				1,000 00	458 28	1,879 61	1,879 61	
Fainwood Circle				2,000 00	950 10	541 72	541 72	
Fairview Avenue				1,360 00	782 15	1,049 90	1,049 90	
Fayerweather Street				5,891 86		577 85	577 85	
First Street	7,675 11				915 48	5,891 86	5,891 86	7,675 11
Fourth Street	915 48				1,940 39	7,675 11		
Gore Street	14,090 34				2,042 51			
Griggs Street			3,900 00	639 16		12,149 95	12,149 95	
Harvey Street				477 16		1,857 49	1,857 49	
Hudson Street				1,206 49		639 16	639 16	
Hubbard Park				433 56		477 16	477 16	
Pioneer Street						1,206 49	1,206 49	
Irving Street			4,200 00		1,632 83	433 56	433 56	
Kendall Square			40,000 00			2,567 17	2,567 17	
Lincoln Street			4,000 00		1,755 46	40,000 00	36,600 71	3,399 29
Linneaeen Street			24,000 00		3,414 91	2,244 54	2,244 54	
Marcella Street			1,600 00		559 19	20,585 00	20,585 09	
Moore Street			1,400 00		811 32	1,040 81	1,040 81	
Monroe Street			18,000 00	3,791 94		588 68	588 68	
Orchard Street			7,000 00		3,796 64	21,791 94	21,791 94	
Oxford Avenue				1,101 84		3,203 36	3,203 36	
Poplar Road				1,257 34		1,101 84	1,101 84	
Potter Street					856 90	1,257 34	1,257 34	
Raymond Street	856 90		3,500 00		1,884 45	1,615 55	1,615 55	
Rindge Avenue	232 63				177 63	55 00	55 00	
Roseland Street				3,000 00	1,261 29	1,738 71	1,738 71	
School Street				2,676 87		2,676 87	2,676 87	

Continued on page 100

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1921, to March 31, 1922

Accounts	Balances	Receipts	Loans Authorized	Transfer to	Transfer from	Total Appropriations	Total Expenditures	Balances
Continued from page 99								
Second Street			10,000 00			10,000 00	100 84	9,899 16
Sherman Street			24,500 00	372 39		24,872 39	24,872 39	
Sidney Street			8,100 00		4,276 30	3,823 70	3,823 70	
Somerville Avenue			8,000 00			8,000 00		8,000 00
Sumner Road				2,267 83		2,267 83	2,267 83	
Tannery Street				2,543 34		2,543 34	2,543 34	
Union Street			2,500 00		1,609 81	890 19	890 19	
Walden Street			34,500 00		2,331 81	32,168 19	32,168 19	
Waverley Street			1,900 00		708 50	1,191 50	1,191 50	
Wendell Street			9,300 00		3,472 52	5,827 48	5,827 48	
Land Damages	290 40					290 40		290 40
Third, Sixth and Commercial Ave. Bridges	325 09			3,879 58	187 46	4,204 67	4,204 67	
Walden Street Bridge	187 46				187 46			
Cambridge Bridge	2,892 44				2,458 82	433 62	433 62	
Harvard Bridge	710 23				710 23			
Edgestones and Sidewalks	3,018 62	7,364 70	30,000 00			40,383 32	52,225 79	
Five Year Balances, 1920-1921	18,190 62				8,104 20	10,086 42	10,086 42	
Five Year Balances, 1921-1922					20,756 05	10,943 51		10,943 51
Ten Year Balances, 1921-1922					10,532 55	6,608 94		6,608 94
Municipal Hospital	148,075 00		40,000 00			188,075 00	145,376 07	42,698 93
Land on Cambridge Street				150 00		150 00	150 00	
Land Adjoining High School	18,000 00				13 64	18,000 00		449 95
Construction River Parkway	13 64							
Land for Playgrounds	449 95				20 70	449 95	44,979 30	9,131 46
Municipal Garage	35,000 00		10,000 00			44,979 30	5,868 54	3,759 84
Office Building and Chapel			15,000 00			15,000 00		3,475 65
Water Construction, General	3,759 84					3,759 84		2,588 47
Detector Meters	3,475 65					3,475 65		2,588 47
Hobbs' Brook Conduit	2,588 47					2,588 47		2,588 47
Filtration Plant	597,454 73		125,000 00			722,454 73	454,837 52	267,617 21
Total Non-Revenue Accounts	\$959,312 62	\$10,296 26	\$641,000 00	\$87,809 31	\$87,809 31	\$1,610,608 88	\$1,131,672 56	\$490,779 79

SCHEDULE B

Nos. I. to VII.

ASSETS AND LIABILITIES

SCHEDULE B-1.

March 31, 1922

ASSETS

Current Assets (B-II.)	\$1,662,475 87
Contingent Assets (B-III.)	155,507 39
Trust Funds and Special Deposits (B-IV.)	214,972 93
Sinking Funds (B-V.)	4,163,156 56
<hr/>	
Total Available Assets	\$6,196,112 75
Fixed Assets (Unavailable B-VI.)	15,018,795 57
<hr/>	
Grand Total of Assets	\$21,214,908 32

LIABILITIES

Current Liabilities (B-I.)	\$12,000 00
Contingent Liabilities (B-IV.)	78,532 82
Trust Liabilities (B-IV.)	215,000 53
Bonded Debt (B-V.)	10,091,700 00
<hr/>	
Total Liabilities	\$10,397,233 35
General Deficit and Surplus Account (B-VII.)	10,817,674 97
<hr/>	
Grand Total of Liabilities	\$21,214,908 32

SCHEDULE B-II.

CURRENT ASSETS

Cash:

Cash in the Treasury, March 31, 1922 \$432,061 77

Good Accounts Receivable:

Delinquent Property Taxes, 1921	\$740,975 79
Delinquent Property Taxes, 1920	307,257 19
Delinquent Property Taxes, 1919	42,376 02
Other good accounts:	
Moth Assessments	321 35
Sewer Assessment	1,697 49
Sidewalk Assessments	9,632 77
Street Watering Assessments	176 79
Water Department, Rates, Meter, etc.	34,345 13

Miscellaneous bills as follows:

Health	\$20,025 62
Sewer	351 67
Street	6,514 14
Outside Aid	21,362 78
Schools	5,149 05
Park	739 87
Cemetery	5,510 85
Municipal Hospital	31,315 45
Soldiers' Benefits	2,762 14
	<u>93,631 57</u>

Total Good Accounts receivable 1,230,414 10

Total Current Assets \$1,662,475 87

CURRENT LIABILITIES

(Floating Debts)

1. Outstanding Accounts Due and Unpaid:

Of the current year	\$2,000 00
Of previous years	10,000 00
	<u>12,000 00</u>

Surplus of Current Assets (B-VII.) \$1,650,475 87

SCHEDULE B-III.

CONTINGENT ASSETS

Doubtful Accounts Receivable:

Delinquent Personal Property and Poll Taxes, viz.:		
1918	\$36,745 08	
1917	31,256 14	
1916	31,308 05	
1915	653 60	
1914	506 62	
1913	332 60	
		<hr/>
		\$100,802 09
Liens		54,705 30
Other doubtful accounts, viz.:		
Miscellaneous bills		
		<hr/>
		\$155,507 39

CONTINGENT LIABILITIES

Retention Fund Account:

Percentage of Contractors' payments, viz.:		
Reserved on Filtration Contracts	\$75,256 07	
Reserved on Hospital Contracts	2,319 30	
Reserved on Cemetery Building	957 45	
		<hr/>
		78,532 82
		<hr/>
Surplus of Contingent Assets (B-VII.)		\$76,974 57

SCHEDULE B-IV.

TRUST FUND ASSETS

Special Deposits, etc., viz.:

Cemetery Fund	\$1,081 27
Bridge Charitable Fund	2,890 97
Dowse Institute Fund	450 86
Daniel White Charity Fund	468 04
Sarah E. Russell Fund	814 41
William E. Saunders Fund	351 00
Cummings Legacy	33 67
Fay Legacy	26 22
James A. Woolson Fund	558 97
Edward H. Whorf Fund	565 48
William Penn Harding Fund	1,006 76
John Wesley Freese Fund	120 96
Mehitable C. C. Wilson Fund	751 15
Hopkins Fund, The	422 42
Abigail W. Howe Fund	3,043 70
Tailings Account Trust Funds	5,143 77

17,729 65

Investment of Trust Funds:

Stock and Bonds in Various Funds, viz.:

Cemetery Fund	\$141,150 00
Cummings Legacy	2,000 00
Fay Legacy	1,000 00
Cemetery Funds, Deeds in Trust	442 00
Citizens' Subscription Fund	5,500 00
Dowse Institute Fund	10,000 00
Daniel White Charity Fund	10,360 00
Sanders Temperance Fund	11,100 00
William E. Saunders Fund	7,718 88
James A. Woolson Fund	5,000 00
Edward H. Whorf Fund	3,000 00

197,270 88

Total Assets in Trust Funds \$214,972 53

LIABILITIES

Trust Funds and Special Funds, viz.:

Cemetery Fund Account	\$142,231 27
Bridge Charitable Fund	2,890 97
Dowse Institute Fund	10,450 86
Daniel White Charity Fund	10,828 04
Sarah E. Russell Fund	814 41
William E. Saunders Fund	8,069 88
Citizens' Subscription Fund	5,472 40
Cummings Legacy	2,033 67

Amount carried forward \$182,791 50

TRUST FUND LIABILITIES—Concluded

Schedule B-IV.—Concluded

Amount brought forward	\$182,791 50	
Fay Legacy	1,026 22	
James A. Woolson Fund	5,558 97	
Edward H. Whorf Fund	3,565 48	
William Penn Harding Fund	1,006 76	
The Hopkins Fund	422 42	
Cemetery Fund, Deeds in Trust	442 00	
Sanders Temperance Fund	11,100 00	
Mehitable C. C. Wilson Fund	751 15	
John Wesley Freese Fund	120 96	
Tailings Account Trust Fund	5,143 77	
Abigail W. Howe Fund	3,043 70	
		<hr/>
Total Liabilities		\$214,972 93
Deficit in Trust Fund Assets		27 60
		<hr/>
		\$215,000 53

SCHEDULE B-V.

SINKING FUND ASSETS

Investment of Sinking Funds:

Bonds and Other Securities, viz.:

(For list of securities see Report of Sinking Fund Commissioners)

Sinking Funds, City Debt\$3,514,328 01

Sinking Funds, Water Debt 648,828 55

Total Sinking Funds \$4,163,156 56

Excess of Debt (Net City and Water Debts) (See B-VII.) 5,928,543 44

\$10,091,700 00

BONDED DEBTS OF THE CITY

1. General Bonds:

a. For General Municipal Purposes

City Funded and Serial Debt\$8,817,200 00

b. For Municipal Enterprises:

Water Works, Funded and Serial Debt ... 1,274,500 00

2. Special Assessment Bonds:

Total of Bonded Debts \$10,091,700 00

SCHEDULE B-VI.

FIXED ASSETS

Land, Buildings and Equipment:

Law Department, equipment.....		\$385 00
City Buildings:		
Land	\$156,800 00	
Buildings	339,000 00	
Equipment	47,336 00	
		543,136 00
Police Department, equipment		14,285 00
Fire Department:		
Land	\$61,900 00	
Buildings	193,400 00	
Equipment	219,858 00	
		475,158 00
Fire Alarm and Police Telegraph, equipment		61,465 00
Health Department:		
Land	\$9,800 00	
Buildings	92,600 00	
Equipment	10,212 25	
		112,612 25
Inspection of Milk and Vinegar, equipment		1,304 00
Municipal Hospital:		
Land	\$61,200 00	
Buildings	314,000 00	
Equipment	30,000 00	
		405,200 00
Cambridge Cemetery:		
Land	\$66,900 00	
Buildings	20,100 00	
Equipment	5,000 00	
		92,000 00
Sealer of Weights and Measures, equipment		2,378 23
City Home:		
Land	\$91,900 00	
Buildings	46,500 00	
Equipment	6,500 00	
		144,900 00
Overseers of Poor, office equipment		1,050 00
Engineering Department, equipment		148,128 00
Sewer Department:		
Land	\$12,800 00	
Buildings	4,300 00	
Equipment	8,346 00	
		25,446 00
Amount carried forward		\$2,027,447 48

Schedule B-VI.—Concluded

Amount brought forward		\$2,027,447 48
Street Department:		
Land	\$109,300 00	
Building	59,500 00	
Equipment	108,850 00	
		<hr/> 277,650 00
Bridge Department, equipment		2,100 00
Water Works		7,201,494 52
Schools:		
Land	\$435,900 00	
Buildings	2,525,000 00	
Equipment	209,290 21	
		<hr/> 3,170,190 21
Library:		
Land	\$85,000 00	
Buildings	95,300 00	
Equipment	130,600 00	
		<hr/> 310,900 00
Parks and Playgrounds:		
Land	\$1,725,660 00	
Buildings	189,300 00	
Equipment	58,553 36	
		<hr/> \$1,973,513 36
Other land not included in any of the Dept. Schedules.....		55,800 00
		<hr/>
Total Fixed Assets (See B-VII.)		\$15,018,795 57

SCHEDULE B-VII.

GENERAL DEFICIT AND SURPLUS ACCOUNT

Deficits

A Deficit of Current Assets (B-II.), if any.....	
B Surplus of Sinking Funds (B-V.), if any.....	
A Deficit of Trust Fund Assets (B-IV.), if any..	27 60
B Deficit of Sinking Funds Assets (B-V.), viz.:..	
Net Bonded Debt	<u>\$5,928,543 44</u>
Total of all Deficits	\$5,928,571 04

Surplus

A Surplus of Current Assets (B-II.), if any	\$1,652,475 87
A Surplus of Contingent Assets (B-III.), if any..	76,974 57
A Surplus of Trust Funds (B-IV.), if any.....	
B Surplus of Sinking Funds (B-V.), if any.....	
Total Surplus, excluding Fixed Assets.....	<u>\$1,727,450 44</u>
Excess of Deficits, viz.:	
Total Net Debts of the City	\$4,201,120 60

Balance

Total of Fixed Assets:	
Land, Buildings, Equipments (B-VI.)	\$15,018,795 57
Deduct Total Net Debts of the City, as above	<u>4,201,120 60</u>
Balance of this Account, General Surplus (B-L)	\$10,817,674 97

SCHEDULE B

No. VIII.

CITY FUNDED DEBT;
CITY SERIAL DEBT
AND OTHER
MISCELLANEOUS TABLES

CITY DEBT

There have been additions to the City Debt during the year as follows:

Serial Loan No. 150—Street Loan, serial bonds, dated October 1, 1921, payable 1922 to 1926, at an annual interest of 5½%. For the construction of Wendall and other streets as authorized by Section 7 (8), Chapter 44, General Laws	\$57,000 00
Serial Loan No. 152—Street Loan, serial bonds, dated October 1, 1921, payable 1922 to 1926, at an annual interest of 5½%. For the construction of sidewalks as authorized by Section 7 (12), Chapter 44, General Laws	20,000 00
Serial Loan No. 153—Street Loan, serial bonds, dated October 1, 1921, payable 1922 to 1926, at an annual interest of 5½%. For the construction of sidewalks as authorized by Section 7 (12), Chapter 44, General Laws	10,000 00
Serial Loan No. 154—Departmental Equipment Loan, serial bonds, dated October 1, 1921, payable 1922 to 1926, at an annual interest of 5½%. For the purchase of new departmental equipment as authorized by Section 7 (11), Chapter 44, General Laws	55,000 00
Serial Loan No. 156—School House Loan, serial bonds, dated October 1, 1921, payable 1922 to 1930, at an annual interest of 5½%. For the purpose of land adjacent to the Latin High School as authorized by Section 7 (3), Chapter 44, General Laws	18,000 00
Serial Loans Nos. 157, 158, 159, 160 and 161—Street Loan, serial bonds, dated October 1, 1921, payable 1922 to 1931, at an annual interest of 5½%. For the construction of Brattle and other streets as authorized by Section 7 (7), Chapter 44, General Laws	232,000 00
Serial Loan No. 162—Building Loan, serial bonds, dated October 1, 1921, payable 1922 to 1941, at an annual interest of 4½%. For the construction of municipal garage at Hampshire Street yard as authorized by Section 7 (4), Chapter 44, General Laws.....	45,000 00
Serial Loans Nos. 163 and 164—Sewer Construction Loan, serial bonds, dated October 1, 1921, payable 1922 to 1951, at an annual interest of 4½%. For the construction of sewers for sanitary purposes and for sewage disposal as authorized by Section 7 (1), Chapter 44, General Laws...	60,000 00
Serial Loans Nos. 166 and 167—Sewer Separate System Loan, serial bonds, dated October 1, 1921, payable 1922 to 1951, at an annual interest of 4½%. For the construction of sewers for surface and storm water as authorized by Section 9, Chapter 92, General Laws. (Outside the debt limit)	45,000 00
Amount carried forward	<u>\$542,000 00</u>

City Debt—Continued

Amount brought forward		\$542,000 00
The following Funded Debt has matured and been paid:		
Harvard Bridge Loan, registered bonds issued July 1, 1891, at annual interest of 4%.....	\$60,000 00	
City Loan, coupon bonds issued March 1, 1912, at an annual interest of 3½%	15,500 00	
Public Library Loan, registered bonds issued November 1, 1901, at an annual interest of 3½%	27,000 00	
Street Loan, coupon bonds issued July 1, 1911, at an annual interest of 3½%	55,000 00	
Street Loan, coupon bonds issued December 1, 1911, at an annual interest of 4%	17,000 00	
Street Loan, registered bonds issued July 1, 1901, at an annual interest of 3½%	54,000 00	
Playground Construction Loan, registered bonds issued July 1, 1911, at an annual interest of 3½%	25,000 00	
Charles River Basin Assessment Loan, coupon bonds issued December 1, 1911, at an annual interest of 4%	60,000 00	
Cemetery Building Loan, registered bonds issued July 1, 1911, at an annual interest of 3½% ..	8,000 00	
Schoolhouse Loan, registered bonds issued July 1, 1901, at an annual interest of 3½%	76,000 00	
Serial Bonds have matured and been paid.....	287,300 00	684,800 00
Net decrease in debt 1921-1922		\$142,800 00

City Debt—Continued

The following is a statement of the total funded City Debt, with the rates of interest thereon:

HARVARD BRIDGE LOAN

Date of Issue	Rate of Interest	When Due	Amount	Total
Aug. 1, 1893 C.....	4 per cent.—30 yrs.	Aug. 1, 1923..	10,000 00	\$10,000

CAMBRIDGE BRIDGE LOAN

July 1, 1899 R.....	3½ per cent.—40 yrs.	July 1, 1939..	\$50,000 00	
July 2, 1900 R.....	3½ " —40 yrs.	July 2, 1940..	100,000 00	
Feb. 1, 1901 R.....	3 " —40 yrs.	Feb. 1, 1941..	100,000 00	
Nov. 1, 1901 R.....	3½ " —40 yrs.	Nov. 1, 1941..	100,000 00	
Aug. 1, 1902 R. & C.	3½ " —40 yrs.	Aug. 1, 1942..	100,000 00	
Jan. 1, 1903 R.....	3½ " —40 yrs.	Jan. 1, 1943..	50,000 00	
Apr. 1, 1903 R.....	3½ " —40 yrs.	Apr. 1, 1943..	50,000 00	
Aug. 1, 1903 C.....	3½ " —40 yrs.	Aug. 1, 1943..	50,000 00	
Jan. 1, 1904 R.....	3½ " —40 yrs.	Jan. 1, 1944..	100,000 00	
May 1, 1904 R. & C.	3½ " —40 yrs.	May 1, 1944..	200,000 00	
Aug. 1, 1904 R.....	3½ " —40 yrs.	Aug. 1, 1944..	100,000 00	
Sept. 1, 1904 R.....	3½ " —40 yrs.	Sept. 1, 1944..	50,000 00	
May 1, 1905 R.....	3½ " —40 yrs.	May 1, 1945..	150,000 00	
Dec. 1, 1905 R.....	3½ " —40 yrs.	Dec. 1, 1945..	100,000 00	
Aug. 1, 1906 R.....	4 " —40 yrs.	Aug. 1, 1946..	150,000 00	
Jan. 1, 1907 R.....	4 " —40 yrs.	Jan. 1, 1947..	50,000 00	
July 1, 1907 C.....	4 " —40 yrs.	July 1, 1947..	40,000 00	
Oct. 1, 1907 C.....	4 " —40 yrs.	Oct. 1, 1947..	15,000 00	
Aug. 1, 1908 R.....	4 " —40 yrs.	Aug. 1, 1948..	45,000 00	
July 1, 1910 R.....	4 " —40 yrs.	July 1, 1950..	20,000 00	
Dec. 1, 1911 C.....	3½ " —40 yrs.	Dec. 1, 1951..	10,000 00	
Mar. 1, 1912 C.....	3½ " —40 yrs.	Mar. 1, 1952..	10,000 00	\$1,640,000

BROOKLINE BRIDGE LOAN

Jan. 1, 1906 R.....	3½ per cent.—40 yrs.	Jan. 1, 1946..	\$20,000 00	
Sept. 1, 1906 R.....	4 " —40 yrs.	Sept. 1, 1946..	5,000 00	\$25,000

COMMERCIAL AVENUE BRIDGE

Aug. 1, 1906 R.....	4 per cent.—40 yrs.	Aug. 1, 1946..		\$50,000
---------------------	---------------------	----------------	--	----------

BUILDING LOAN

Apr. 1, 1903 R.....	3½ per cent.—20 yrs.	Apr. 1, 1923..	\$3,000 00	
Apr. 1, 1904 R.....	3½ " —20 yrs.	Apr. 1, 1924..	25,000 00	
May 1, 1904 R.....	3½ " —20 yrs.	May 1, 1924..	5,000 00	
Sept. 1, 1907 R.....	4 " —20 yrs.	Sept. 1, 1927..	30,000 00	\$63,000

Amount carried forward\$1,788,000

City Debt—Continued

Amount brought forward\$1,788,000 00

CAMBRIDGE BRIDGE SPECIAL LOAN

(Charles River Dam)

1, 1904 R.....	3½ per cent.—30 yrs.	May 1, 1934..		\$28,000 00
----------------	----------------------	---------------	--	-------------

HOSPITAL LOAN

1, 1902 R.....	3½ per cent.—20 yrs.	July 1, 1922..	\$6,000 00	
1, 1908 R.....	4 " —20 "	Aug. 1, 1928..	20,000 00	
1, 1910 C.....	4 " —20 "	July 1, 1930..	95,000 00	
1, 1911 R.....	3½ " —20 "	Dec. 1, 1931..	4,000 00	
1, 1912 C.....	3½ " —20 "	Mar. 1, 1932..	25,000 00	\$150,000 00

METROPOLITAN PARK ASSESSMENT LOAN

1, 1902 R.....	3½ per cent.—30 yrs.	Aug. 1, 1932..		\$46,000 00
----------------	----------------------	----------------	--	-------------

PARK LOAN

1, 1894 R. & C.	4 per cent.—30 yrs.	Feb. 1, 1924..	\$360,000 00	
1, 1895 R.....	4 " —40 "	Aug. 1, 1935..	100,000 00	
1, 1896 R.....	4 " —40 "	Feb. 1, 1936..	100,000 00	
1, 1896 R.....	4 " —30 "	Aug. 1, 1926..	100,000 00	
1, 1896 R.....	4 " —30 "	Oct. 1, 1926..	40,000 00	
1, 1897 R.....	3½ " —40 "	Sept. 1, 1937..	100,000 00	
1, 1897 R.....	3½ " —40 "	Nov. 1, 1937..	50,000 00	
1, 1898 R.....	3½ " —40 "	June 1, 1938..	50,000 00	
1, 1898 R.....	3½ " —40 "	Aug. 1, 1938..	100,000 00	
1, 1899 R.....	3½ " —40 "	Aug. 1, 1939..	100,000 00	
2, 1900 R.....	3½ " —40 "	July 2, 1940..	50,000 00	
1, 1900 R.....	3½ " —40 "	Nov. 1, 1940..	50,000 00	
1, 1901 R.....	3½ " —40 "	Oct. 1, 1941..	100,000 00	
1, 1902 R.....	3½ " —40 "	July 1, 1942..	48,000 00	
1, 1903 R.....	3½ " —40 "	Apr. 1, 1943..	50,000 00	
1, 1904 R.....	3½ " —40 "	Sept. 1, 1944..	25,000 00	
1, 1904 R.....	3½ " —40 "	Nov. 1, 1944..	6,000 00	
1, 1905 R.....	3½ " —40 "	Apr. 1, 1945..	5,000 00	
1, 1905 R.....	3½ " —40 "	May 1, 1945..	45,000 00	
1, 1905 R.....	3½ " —40 "	Aug. 1, 1945..	5,000 00	
1, 1906 R.....	4 " —40 "	Sept. 1, 1946..	25,000 00	
1, 1907 R.....	4 " —40 "	Oct. 1, 1947..	10,000 00	
1, 1908 R.....	4 " —40 "	Aug. 1, 1948..	30,000 00	
1, 1908 R.....	4 " —40 "	Nov. 1, 1948..	12,000 00	
1, 1910 R.....	3½ " —40 "	Jan. 1, 1950..	8,800 00	
1, 1911 R.....	3½ " —40 "	Mar. 1, 1951..	17,000 00	
1, 1911 R.....	3½ " —40 "	July 1, 1951..	7,000 00	
1, 1911 R. & C.	3½ " —40 "	Dec. 1, 1951..	6,200 00	\$1,600,000 00

Amount carried forward\$3,612,000 00

City Debt—Continued

Amount brought forward\$3,612,000 0

SCHOOLHOUSE LOAN

July 1, 1902 R.....	3½	per cent.—20 yrs.	July 1, 1922..	\$86,500 00	
Oct. 1, 1902 R.....	3½	" —20 "	Oct. 1, 1922..	11,000 00	
Oct. 1, 1903 R.....	3½	" —20 "	Oct. 1, 1923..	80,000 00	
Apr. 1, 1904 R.....	3½	" —20 "	Apr. 1, 1924..	80,000 00	
Nov. 1, 1904 R.....	3½	" —20 "	Nov. 1, 1924..	20,000 00	
Nov. 1, 1904 R.....	3½	" —20 "	Nov. 1, 1924..	6,000 00	
May 1, 1905 R.....	3½	" —20 "	May 1, 1925..	20,950 00	
Aug. 1, 1905 R.....	3½	" —20 "	Aug. 1, 1925..	20,000 00	
Aug. 1, 1906 R.....	4	" —20 "	Aug. 1, 1926..	33,000 00	
Nov. 1, 1906 R.....	4	" —20 "	Nov. 1, 1926..	14,000 00	
Dec. 1, 1908 R.....	3½	" —20 "	Dec. 1, 1928..	40,000 00	
Jan. 1, 1910 R. & C.	3½	" —20 "	Jan. 1, 1930..	93,500 00	
July 1, 1910 R.....	4	" —20 "	July 1, 1930..	120,000 00	
Mar. 1, 1911 R.....	3½	" —20 "	Mar. 1, 1931..	5,000 00	
Mar. 1, 1912 C.....	3½	" —20 "	Mar. 1, 1932..	2,500 00	
Feb. 1, 1913 C.....	3½	" —20 "	Feb. 1, 1933..	5,000 00	
					\$637,450 0

SEWER LOAN (Construction General)

Aug. 1, 1894 R. & C.	4	per cent.—30 yrs.	Aug. 1, 1924..	\$75,000 00	
Oct. 1, 1895 R.....	4	" —30 "	Oct. 1, 1925..	60,000 00	
Aug. 1, 1901 R.....	3½	" —30 "	Aug. 1, 1931..	10,000 00	
Oct. 1, 1903 R.....	3½	" —30 "	Oct. 1, 1933..	20,000 00	
May 1, 1904 R.....	3½	" —30 "	May 1, 1934..	40,000 00	
Nov. 1, 1904 R.....	3½	" —30 "	Nov. 1, 1934..	5,000 00	
May 1, 1905 R.....	3½	" —30 "	May 1, 1935..	15,000 00	
May 1, 1906 R.....	4	" —30 "	May 1, 1936..	10,000 00	
Apr. 1, 1907 R.....	4	" —30 "	Apr. 1, 1937..	35,000 00	
Dec. 1, 1908 R.....	4	" —30 "	Dec. 1, 1938..	5,000 00	
Jan. 1, 1910 R. & C.	3½	" —30 "	Jan. 1, 1940..	23,000 00	
May 1, 1910 R.....	4	" —30 "	May 1, 1940..	15,000 00	
Mar. 1, 1911 R.....	3½	" —30 "	Mar. 1, 1941..	10,000 00	
July 1, 1911 R.....	3½	" —30 "	July 1, 1941..	10,000 00	
Feb. 1, 1913 C.....	3½	" —30 "	Feb. 1, 1943..	10,000 00	
July 1, 1913 C.....	4	" —30 "	July 1, 1943..	20,000 00	
July 1, 1913 C.....	4	" —30 "	July 1, 1943..	5,000 00	\$368,000 0

SEWER LOAN (Improved Sewerage)

Nov. 1, 1899 R.....	3½	per cent.—30 yrs.	Nov. 1, 1929..	\$42,000 00	
July 2, 1900 R.....	3½	" —30 "	July 2, 1930..	100,000 00	
Aug. 1, 1901 R.....	3½	" —30 "	Aug. 1, 1931..	100,000 00	
Nov. 1, 1902 R.....	3½	" —30 "	Nov. 1, 1932..	20,000 00	
Apr. 1, 1903 R.....	3½	" —30 "	Apr. 1, 1933..	40,000 00	
May 1, 1904 R.....	3½	" —30 "	May 1, 1934..	47,000 00	
May 1, 1905 R.....	3½	" —30 "	May 1, 1935..	50,000 00	\$399,000 0

Amount carried forward\$5,016,000

City Debt—Continued

Amount brought forward\$5,016,000 00

SEWER LOAN (Separate System of Drainage)

May 1, 1904 R.....	3½	per cent.—30 yrs.	May 1, 1934..	\$25,000 00	
May 1, 1905 R.....	3½	" —30 "	May 1, 1935..	25,000 00	
May 1, 1906 R.....	4	" —30 "	May 1, 1936..	25,000 00	
Sept. 1, 1906 R.....	4	" —30 "	Sept. 1, 1936..	25,000 00	
Apr. 1, 1907 R.....	4	" —30 "	Apr. 1, 1937..	25,000 00	
Nov. 1, 1907 R.....	4	" —30 "	Nov. 1, 1937..	10,000 00	
Aug. 1, 1908 R.....	4	" —30 "	Aug. 1, 1938..	25,000 00	
Dec. 1, 1908 R.....	4	" —30 "	Dec. 1, 1938..	12,000 00	
July 1, 1909 R.....	3½	" —30 "	July 1, 1939..	2,000 00	
Jan. 1, 1910 C.....	3½	" —30 "	Jan. 1, 1940..	23,000 00	
May 1, 1910 R.....	4	" —30 "	May 1, 1940..	10,000 00	
July 1, 1910 R.....	4	" —30 "	July 1, 1940..	15,000 00	
July 1, 1911 R.....	3½	" —30 "	Mar. 1, 1941..	10,000 00	
Dec. 1, 1911 C.....	3½	" —30 "	Dec. 1, 1941..	10,000 00	
Sept. 1, 1912 C.....	3½	" —30 "	Sept. 1, 1942..	15,000 00	
Feb. 1, 1913 C.....	3½	" —30 "	Feb. 1, 1943..	10,000 00	\$267,000 00

STREET LOAN

July 1, 1902 R.....	3½	per cent.—20 yrs.	July 1, 1922..	30,000 00	
Nov. 1, 1902 R.....	3½	" —20 "	Nov. 1, 1922..	14,000 00	
Apr. 1, 1903 R.....	3½	" —20 "	Apr. 1, 1923..	4,000 00	
Nov. 2, 1903 R.....	3½	" —20 "	Nov. 1, 1923..	12,000 00	
Sept. 1, 1904 R.....	3½	" —20 "	Sept. 1, 1924..	59,000 00	
Nov. 1, 1904 R.....	3½	" —20 "	Nov. 1, 1924..	6,500 00	
May 1, 1905 R.....	3½	" —20 "	May 1, 1925..	84,000 00	
Nov. 1, 1905 R.....	3½	" —20 "	Nov. 1, 1925..	1,500 00	
May 1, 1906 R. & C.	4	" —20 "	May 1, 1926..	100,000 00	
Aug. 1, 1906 R.....	4	" —20 "	Aug. 1, 1926..	22,000 00	
Apr. 1, 1907 R.....	4	" —20 "	Apr. 1, 1927..	40,000 00	
June 1, 1907 R.....	4	" —20 "	June 1, 1927..	19,000 00	
Sept. 1, 1907 R.....	4	" —20 "	Sept. 1, 1927..	25,000 00	
Nov. 1, 1907 R.....	4	" —20 "	Nov. 1, 1927..	10,000 00	
Jan. 1, 1908 C.....	4	" —20 "	Jan. 1, 1928..	34,000 00	
Aug. 1, 1908 R.....	4	" —20 "	Aug. 1, 1928..	42,000 00	
Mar. 1, 1909 R.....	3½	" —20 "	Mar. 1, 1929..	20,000 00	
Jan. 1, 1910 R. & C.	3½	" —20 "	Jan. 1, 1930..	13,500 00	
July 1, 1910 R.....	4	" —20 "	July 1, 1930..	12,000 00	
Mar. 1, 1911 R.....	3½	" —20 "	Mar. 1, 1931..	27,000 00	
July 1, 1911 R.....	3½	" —20 "	July 1, 1931..	53,000 00	
Sept. 1, 1912 C.....	4	" —10 "	Sept. 1, 1922..	118,000 00	
Sept. 1, 1912 R.....	3½	" —10 "	Sept. 1, 1922..	7,000 00	
Sept. 1, 1912 R. & C.	3½	" —20 "	Sept. 1, 1932..	6,200 00	
Feb. 1, 1913 C.....	4	" —10 "	Feb. 1, 1923..	13,000 00	
Feb. 1, 1913 C.....	3½	" —20 "	Feb. 1, 1933..	6,250 00	
July 1, 1913 C.....	4	" —10 "	July 1, 1923..	20,000 00	
July 1, 1913 C.....	4	" —10 "	July 1, 1923..	37,800 00	
July 1, 1913 C.....	4	" —20 "	July 1, 1933..	4,000 00	
Aug. 1, 1913 C.....	4	" —20 "	Aug. 1, 1933..	3,700 00	
Aug. 1, 1913 C.....	4	" —20 "	Aug. 1, 1933..	14,300 00	\$858,750 00

Amount carried forward\$6,141,200 00

City Debt—Continued

Amount brought forward\$6,141,200 00

LAND FOR PLAYGROUND LOAN

July 1, 1910 R.....	4	per cent.—30 yrs.	July 1, 1940..	\$50,000 00	
July 1, 1911 R.....	3½	“ —30 “	July 1, 1941..	15,000 00	
Dec. 1, 1911 C.....	3½	“ —30 “	Dec. 1, 1941..	30,000 00	\$95,000 0

PLAYGROUND CONSTRUCTION LOAN

Sept. 1, 1912 C.....	4	per cent.—10 yrs.	Sept. 1, 1922..	35,000 00	\$35,000 0
----------------------	---	-------------------	-----------------	-----------	------------

MUNICIPAL LOAN

Feb. 1, 1913 C.....	4	per cent.—10 yrs.	Feb. 1, 1923..	\$39,800 00	
July 1, 1913 C.....	4	“ —10 “	July 1, 1923..	25,000 00	\$64,800 0

Total Funded Debt.....\$6,337,00 0

SERIAL LOANS

INSIDE DEBT LIMIT

Street Loans, due 1922 to 1936	\$1,116,250 00	
School House Loans, due 1922 to 1839	202,250 00	
Building Loans, due 1922 to 1941	288,500 00	
Sewer Construction Loans, due 1922 to 1951	284,500 00	
Department Equipment Loans, due 1922 to 1926..	109,000 00	
City Loans, due 1922 to 1924	2,000 00	
		\$2,002,500 00

OUTSIDE DEBT LIMIT

Playground Loans, due 1922 to 1946	\$23,200 00	
Sewer Separate Systems, due 1922 to 1951.....	96,500 00	
Hospital Loans, due 1922 to 1942	236,000 00	
Bridge Loans, due 1922 to 1946	48,000 00	
Park Loans, due 1922 to 1945.....	74,000 00	
		477,700 00

Total City Debt, March 31, 1922..... \$8,817,200 00

City Debt—Continued

Financial Year April 1 to March 31, in which the loans are due.	Street	School	Building	Sewer Con- struction	Department Equipment	City	Totals
1922-23.....	\$227,650 00	\$15,500 00	\$25,000 00	\$12,500 00	\$28,000 00	\$1,000 00	\$309,650 00
1923-24.....	210,050 00	15,500 00	25,000 00	12,500 00	28,000 00	1,000 00	292,050 00
1924-25.....	179,050 00	15,500 00	19,500 00	12,500 00	21,000 00		247,550 00
1925-26.....	142,050 00	15,500 00	19,500 00	12,500 00	21,000 00		210,550 00
1926-27.....	102,250 00	15,500 00	19,500 00	12,000 00	11,000 00		160,250 00
1927-28.....	71,650 00	15,500 00	18,500 00	12,000 00			117,650 00
1928-29.....	57,650 00	15,000 00	18,500 00	11,500 00			102,650 00
1929-30.....	54,400 00	15,000 00	15,500 00	11,500 00			96,400 00
1930-31.....	40,900 00	15,000 00	15,500 00	11,500 00			82,900 00
1931-32.....	25,400 00	13,000 00	15,500 00	11,500 00			65,400 00
1932-33.....	2,400 00	13,000 00	15,500 00	11,500 00			42,400 00
1933-34.....	2,400 00	13,000 00	15,500 00	11,500 00			42,400 00
1934-35.....	400 00	9,750 00	15,500 00	11,500 00			37,150 00
1935-36.....		5,500 00	15,500 00	11,000 00			32,000 00
1936-37.....		5,000 00	9,500 00	11,000 00			25,500 00
1937-38.....		5,000 00	9,500 00	10,500 00			25,000 00
1938-39.....			9,500 00	10,000 00			14,500 00
1939-40.....			4,500 00	9,000 00			13,500 00
1940-41.....			4,500 00	9,000 00			13,500 00
1941-42.....			4,500 00	8,000 00			10,000 00
1942-43.....			2,000 00	8,000 00			10,000 00
1943-44.....			2,000 00	8,000 00			8,000 00
1944-45.....				8,000 00			8,000 00
1945-46.....				8,000 00			8,000 00
1946-47.....				7,000 00			7,000 00
1947-48.....				6,500 00			6,500 00
1948-49.....				5,500 00			5,500 00
1949-50.....				5,000 00			5,000 00
1950-51.....				3,500 00			3,500 00
1951-52.....				2,000 00			2,000 00
	\$1,116,250 00	\$202,250 00	\$290,500 00	\$284,500 00	\$109,000 00	\$2,000 00	\$2,004,500 00

City Debt—Continued

SERIAL LOANS
Outside Debt Limit

Financial Year Apr. 1 to March 31, in which loans are due	Play- grounds	Sewer Separate System	Hospital	Bridge	Park	Total City Serials "Outside"	Water Serial
1922-23.....	\$1,300 00	\$4,500 00	\$15,500 00	\$2,000 00	\$4,000 00	\$27,300 00	\$31,500 00
1923-24.....	1,300 00	4,500 00	15,500 00	2,000 00	4,000 00	27,300 00	31,500 00
1924-25.....	1,300 00	4,500 00	15,500 00	2,000 00	4,000 00	27,300 00	31,500 00
1925-26.....	1,300 00	4,500 00	15,500 00	2,000 00	4,000 00	27,300 00	31,500 00
1926-27.....	1,300 00	4,500 00	15,500 00	2,000 00	4,000 00	27,300 00	19,000 00
1927-28.....	1,300 00	3,500 00	15,500 00	2,000 00	4,000 00	26,300 00	19,000 00
1928-29.....	1,300 00	3,500 00	15,500 00	2,000 00	4,000 00	26,300 00	19,000 00
1929-30.....	1,300 00	3,500 00	15,500 00	2,000 00	4,000 00	26,300 00	19,000 00
1930-31.....	1,300 00	3,500 00	15,500 00	2,000 00	4,000 00	26,300 00	18,000 00
1931-32.....	1,300 00	3,500 00	15,500 00	2,000 00	4,000 00	26,300 00	18,000 00
1932-33.....	1,300 00	3,500 00	15,500 00	2,000 00	4,000 00	26,300 00	18,000 00
1933-34.....	1,300 00	3,500 00	15,500 00	2,000 00	3,000 00	25,300 00	17,000 00
1934-35.....	1,300 00	3,500 00	15,500 00	2,000 00	3,000 00	25,300 00	14,500 00
1935-36.....	1,300 00	3,500 00	12,500 00	2,000 00	3,000 00	22,300 00	14,500 00
1936-37.....	500 00	3,500 00	8,000 00	2,000 00	3,000 00	17,000 00	13,500 00
1937-38.....	500 00	3,500 00	8,000 00	2,000 00	3,000 00	17,000 00	13,500 00
1938-39.....	500 00	3,500 00	3,000 00	2,000 00	3,000 00	12,000 00	12,500 00
1939-40.....	500 00	3,500 00	3,000 00	2,000 00	3,000 00	12,000 00	12,500 00
1940-41.....	500 00	3,500 00	3,000 00	2,000 00	3,000 00	9,000 00	12,500 00
1941-42.....	500 00	3,500 00	3,000 00	2,000 00	3,000 00	8,000 00	12,500 00
1942-43.....	500 00	3,500 00	3,000 00	2,000 00	2,000 00	8,000 00	12,500 00
1943-44.....	500 00	3,500 00	3,000 00	2,000 00	1,000 00	7,000 00	12,500 00
1944-45.....	500 00	3,500 00	3,000 00	2,000 00	1,000 00	7,000 00	12,500 00
1945-46.....	500 00	2,000 00	2,000 00	2,000 00		4,500 00	11,000 00
1946-47.....		1,500 00				1,500 00	11,000 00
1947-48.....		1,500 00				1,500 00	11,000 00
1948-49.....		1,500 00				1,500 00	11,000 00
1949-50.....		1,500 00				1,500 00	11,000 00
1950-51.....		1,500 00				1,500 00	11,000 00
1951-52.....		1,500 00				1,500 00	11,000 00
	\$23,200 00	\$96,500 00	\$236,000 00	\$48,000 00	\$74,000 00	\$477,700 00	\$482,500 00

City Debt—Continued

Following is a statement of the total Funded Water Debt of the City, with rates of interest thereon:

Date of Issue			Rate of Interest Term		When due	Amount	Total
July 1, 1902	R.....	3½	20	"	July 1, 1922..	13,500 00	
Nov. 1, 1902	R.....	3½	20	"	Nov. 1, 1922..	5,000 00	
April 1, 1894	C.....	4	30	"	April 1, 1924..	300,000 00	
May 1, 1905	R.....	3½	20	"	May 1, 1925..	46,000 00	
May 1, 1906	R. & C.	4	30	"	May 1, 1936..	280,000 00	
June 1, 1907	R.....	4	30	"	June 1, 1937..	49,000 00	
July 1, 1907	C.....	4	30	"	July 1, 1937..	25,000 00	
June 1, 1908	R.....	4	20	"	June 1, 1928..	20,000 00	
Aug. 1, 1908	R.....	4	30	"	Aug. 1, 1938..	17,000 00	
Jan. 1, 1910	C.....	3½	20	"	Jan. 1, 1930..	5,000 00	
Feb. 1, 1910	R.....	3½	20	"	Feb. 1, 1930..	5,000 00	
Mar. 1, 1911	R.....	3½	30	"	Mar. 1, 1941..	16,500 00	
Dec. 1, 1911	C.....	3½	30	"	Dec. 1, 1941..	10,000 00	\$792,000 00

CITY FUNDED DEBT

	April 1, 1921	April 1, 1922	Increase	Decrease
Funded City Debt.....	\$6,734,500 00	\$6,337,000 00		\$397,500 00
Sinking Funds for Funded City Debt	3,610,536 69	3,514,328 01		96,208 68
Net Funded City Debt....	\$3,123,963 31	\$2,822,671 99		\$301,291 32
Serial City Debt.....	2,224,850 00	2,480,200 00	\$255,350 00	
Net City Debt.....	\$5,348,813 31	\$5,302,871 99		45,941 32
Funded Water Debt.....	\$822,000 00	\$792,000 00		\$30,000 00
Sinking Funds for Funded Water Debts	637,971 84	648,828 55	\$10,856 71	
Net Funded Water Debt..	\$184,028 16	\$143,171 45		\$40,856 71
Serial Water Debt.....	184,000 00	482,500 00	298,500 00	
Net Water Debt.....	\$368,028 16	\$625,671 45	\$257,643 29	

City Debt—Concluded

RECAPITULATION

Amount of City Loans upon which interest is at 5½%	\$298,000 00	
Amount of City Loans upon which interest is at 5%	484,500 00	
Amount of City Loans upon which interest is at 4½%	979,750 00	
Amount of City Loans upon which interest is at 4%	3,056,300 00	
Amount of City Loans upon which interest is at 3½%	3,898,650 00	
Amount of City Loans upon which interest is at 3%	100,000 00	
Total Funded and Serial City Debt....		\$8,817,200 00
Amount of Water Loans upon which interest is at 4½%	319,000 00	
Amount of Water Loans upon which interest is at 4%	774,500 00	
Amount of Water Loans upon which interest is at 3½%	181,000 00	
Total Funded and Serial Water Debt....		1,274,500 00
		<u>\$10,091,700 00</u>

Temporary Loans for the Past Ten Years and Interest upon the Same

Year	Temporary Loan	Interest paid upon Loan	Year	Temporary Loan	Interest paid upon Loan
1912.....	\$500,000 00	\$5,426 03	1917.....	\$3,215,000 00	\$47,893 19
1913.....	400,000 00	7,432 77	1918.....	2,050,000 00	60,660 91
1914.....	1,145,000 00	13,518 04	1919.....	2,100,000 00	60,784 68
1915.....	1,650,000 00	15,398 66	1920.....	2,650,000 00	56,699 17
1916.....	1,650,000 00	23,921 76	1921.....	3,250,000 00	69,881 48

ANNUITIES AND TRUST FUNDS

Section 53—Chapter 41—General Laws

PROVIDING FOR THE AUDITING OF CERTAIN TRUST FUNDS AND ACCOUNTS

Section 53. Town auditors shall at least once every year, and so much oftener as they deem necessary, audit the accounts of the trustees of any property the principal or income of which, in whole or in part, was bequeathed or given in trust for public uses for the benefit of the town or any part thereof, or for the benefit of the inhabitants of the town or of any part thereof, and examine and estimate the funds, securities and evidences of property held by such trustees. Said trustees shall give said auditors free access to their accounts, funds, securities and evidences of property; and any such trustee refusing to exhibit the same shall be punished by a fine of not less than fifty nor more than two hundred dollars. Town auditors shall include in their annual reports a report of such auditing and investigation; and if they discover any fraud or irregularity they shall immediately report the same to the mayor and city treasurer or to the selectmen and town treasurer.

Under the provisions of the foregoing Act I hereby certify that I have examined the accounts, vouchers and securities belonging to the Trust Funds held for public uses, and find them correct and in excellent condition.

Attest:

CHARLES H. THURSTON, City Auditor.

April 1, 1922.

ANNUITIES

	Original Gift	Annual Interest
Dowse Institute Annuity	\$5,000	\$300
Daniel White Charity Annuity	10,000	600
Sanders Temperance Annuity	10,000	600
	\$25,000	\$1,500

DANIEL WHITE CHARITY (\$10,360.00)

Established by Daniel White, of Charlestown, in his lifetime for the purchase and distribution of fuel among the deserving poor of Cambridge, his native city.

May 15, 1863, he appointed four trustees, with the Mayor of Cambridge, ex-officio, to distribute not exceeding \$300 per year. The trustees fill any vacancies in their number, in case of death, tc. Ex-Mayor J. Warren Merrill added a bequest in cash and stocks to the value of \$5,360, thus making the principal \$10,360. The present permanent members are George E. Saunders, Walter F. Earle, Edmund Reardon and Fred B. Wheeler, and the fund is invested by the trustees.

Annuities—Continued

Report of the Treasurer of the Daniel White Charity Fund

Receipts:	
Amount of Fund, January 30, 1921	\$11,089 49
Interest received on city notes	\$500 00
Interest received on bank balance	38 48
Cash balance at beginning of year	729 49
	<hr/>
	\$1,267 97
Payments:	
Paid for fuel for poor	\$794 93
Paid for Safe Deposit Box	5 00
Cash balance at close of year	468 04
	<hr/>
	\$1,267 97
Principal	\$10,000 00
Cash in principal	360 00
Cash balance in bank	468 04
	<hr/>
	\$10,828 04
Amount of Fund, March 31, 1922	\$10,828 04

THE DOWSE INSTITUTE (\$10,000)

The executors of Thomas Dowse, under a discretionary power in his will, gave to the city, on June 30, 1858, the sum of ten thousand dollars for an annual course of lectures, the city agreeing to pay to the trustees of said institute interest thereon at the rate of six per cent. per annum. The trustees consist of three permanent members, with the Mayor and the President of the City Council, for the time being. The original permanent members were appointed by the executors, and the board fills its own vacancies:

Report of the Treasurer of the Dowse Institute Fund

Receipts:	
Bank balance, March 31, 1920	\$1,096 35
Received of City two years' interest	1,200 00
Received as interest on deposit with Cambridge Trust Co.	20 72
	<hr/>
	\$2,317 07
Payments, April 1, 1920 to March 31, 1922:	
Riverside House Associates	\$107 00
School Centre work in co-operation with Cambridge School Committee	734 21
Y. M. C. A.	75 00
Y. W. C. A.	225 00
Social Union Lectures	500 00
Cambridge Neighborhood House	150 00
East End Union	75 00
	<hr/>
	\$1,866 21
Balance in bank, March 31, 1922	450 86
	<hr/>
	\$2,317 07

THE SANDERS TEMPERANCE ANNUITY (\$11,100)

The sum was given to the City by the will of Charles Sanders, of Cambridge, who died April 7, 1864, for the support of a missionary to promote the cause of temperance. The trustees consist of the Mayor and President of the City Council. The City pays a missionary \$600 a year to carry out the provisions of the will.

On January 26, 1921, the trustees appointed Bernard J. Brogan to the office of City Missionary, said appointment to take effect February 1, 1921.

Annuities—Continued

THE HOPKINS FUND (£500)

Edward Hopkins died in London, England, in 1657 or 1658, leaving £500 to be used, upon the death of his widow, to aid a college and school in New England. The Court of Chancery gave it to Harvard College and a school in Cambridge. One-fourth of the net income is paid annually to the city for classical instruction in the Latin School. The trustees are a corporation established in Boston.

Treasurer's Report of Hopkins Fund

Amount on hand, March 31, 1921		\$214 28
Interest accumulations on deposit		8 70
Received from Treasurer of Hopkins Fund		855 40
		<hr/>
		\$1,078 38
Paid to Individuals by vote School Committee...	\$60 00	
Paid to the City of Cambridge for tuition	300 00	
Paid to the School Department, for supplies	275 96	
	<hr/>	\$655 96
Balance, March 31, 1922, Harvard Trust Company.....		422 42
		<hr/>
		\$1,078 38

HENRY F. LEHAN, City Treasurer.

March 31, 1922.

THE TRUST FUNDS

CEMETERY FUND FOR PERPETUAL CARE OF LOTS

Held in trust by the City comprising sums received from the proprietors of lots in Cambridge Cemetery for the perpetual care of their lots therein. The fund is almost all invested in City of Cambridge registered bonds. First established in 1860.

Amount of Bonds in fund, March 31, 1920	\$134,450 00	
Amount of Bonds purchased to March 31, 1921...	10,000 00	
	<hr/>	\$144,450 00
Amount of Bonds that matured during year 1920-1921	\$3,300 00	
	<hr/>	\$141,150 00

CASH ACCOUNT

Dr.

Cash on hand, March 31, 1921	\$913 47	
Received from proprietors of lots for perpetual Care	6,185 00	
Received from interest on investments	5,969 76	
Received from matured bonds	3,300 00	
Received from discount on bonds purchased.....	682 80	
	<hr/>	\$17,051 03

Cr.

Cash paid for bonds purchased	\$10,000 00	
Paid accrued interest on bonds purchased	69 89	
Paid to Cemetery Trustees for care of lots in perpetual care	5,899 87	
Balance on hand, March 31, 1922	1,081 27	
	<hr/>	\$17,051 03

The Trust Funds—Continued

Registered Bonds	\$141,150 00	
Deposit in Harvard Trust Co.	1,081 27	
		\$142,231 27
Fund for Perpetual Care	\$141,602 77	
Fund for Deeds in Trust	442 00	
		\$142,231 27

CEMETERY FUND: DEEDS IN TRUST

Held in trust by the City, comprising sums received from the proprietors of lots in Cambridge Cemetery for the furtherance of certain trusts mentioned in conveyances of lots to the City in trust.

The fund amounts to \$442.00, and was first established March 11, 1901. Included in investment of Perpetual Car Fund \$442 00

THE BRIDGE CHARITABLE FUND

Founded by the late Levi Bridge of Cambridge, in his lifetime, by a deed of trust dated August 12, 1875, and upon his death (April 15, 1876), the amount of said fund came into the hands of the City. In October, 1877, Mr. Samuel F. Bridge, a relative of the founder, gave a sum sufficient to double the amount. When the fund reached two thousand dollars, one-third of the income was to be added to the principal and two-thirds paid over annually to the Overseers of the Poor, to be expended for the deserving poor of Cambridge. The trustees consist of the Mayor and the President of the City Council. The City Treasurer is custodian of the Fund.

Amount of Fund, March 31, 1921	\$2,843 00
Interest to March 31, 1922	\$143 93
Two-thirds income paid to Overseers of the Poor	95 96
One-third income paid to Fund.....	47 97
Balance deposited in Central Trust Co., March 31, 1922	\$2,890 97

Two-thirds of the income amounting to \$95.96 was paid to the Overseers of the Poor, and the balance, \$47.97, was added to the principal, leaving a balance of \$2,890.97 in the hands of the City Treasurer. Said sum is deposited in the Central Trust Company and bears interest at the rate of four per cent. per annum.

HENRY F. LEHAN, City Treasurer.

March 31, 1922.

CITIZENS' SUBSCRIPTION FUND (\$5,500)

In 1889, a committee of citizens raised by subscription a fund to enable the trustees to purchase a large number of books at the time the new Public Library building was opened. The unexpended balance (Fifty-five hundred dollars) was invested and the income is used for the same purpose.

Balance in bank, March 31, 1921	\$10 22	
Receipts	274 79	
		\$285 01
Expenditures		312 61
Overdraft to be met from 1922 income		\$27 60

The Trust Funds—Continued

CITIZENS' SUBSCRIPTION FUND (\$5,500)

Overdraft on March 31, 1922	\$27 60
The principal is invested in Cambridge Sewer Bonds, No. 47..	500 00
Liberty Bonds, 4%	5,000 00
	<hr/>
	\$5,500 00

CUMMINGS LEGACY (\$2,000)

As provided in the will of Daniel P. Cummings, who died May 3, 1889, the sum of two thousand dollars was paid over to the trustees of the Public Library, the annual income to be expended by said trustees in the purchase of non-sectarian books for the Public Library.

Balance on deposit, March 31, 1921	\$33 93	
Receipts	83 65	
	<hr/>	\$117 58
Expenditures		83 91
		<hr/>
Balance on deposit, March 31, 1922	\$33 67	
The principal is invested in 4% Liberty Bonds	\$2,000 00	
	<hr/>	

FAY LEGACY (\$1,000)

In accordance with the provisions of the will of Isaac Fay, who died December 29, 1872, the sum of one thousand dollars was paid to the trustees of the Dana Library (now the Cambridge Library) for the time being, "which sum shall be safely invested by said trustees, and the income thereof appropriated to the purchase of books for said Library."

Balance on deposit, March 31, 1922	\$34 33	
Receipts	42 50	
	<hr/>	\$76 83
Expenditures		50 61
		<hr/>
Balance on deposit, March 31, 1922	\$26 22	
The principal is invested in 3% Liberty Bonds	\$1,000 00	
	<hr/>	

WILLIAM E. SAUNDERS FUND (\$8,068 88)

In accordance with the will of Abigail L. Prentiss, the residue, after the termination of certain annuities, was paid to the Trustees of the Cambridge Public Library, the annual income to be used for the purchase of books to be placed in the William E. Saunders Alcove, and for the care of same. This alcove is assigned to books on genealogy.

Balance on deposit, March 31, 1921.....	\$396 47	
Receipts	318 05	
	<hr/>	\$714 52
Expenditures		363 52
		<hr/>
Balance on deposit, March 31, 1922	\$351 00	
The principal is invested in 3½% Liberty Bonds	7,000 00	
Deposited in Cambridgeport Savings Bank	717 88	
	<hr/>	\$8,068 88
	<hr/>	

March 31, 1922.

The Trust Funds—Continued

JAMES A. WOOLSON FUND (\$5,000)

By the bequest of James A. Woolson, the sum of five thousand dollars was paid to the Trustees of the Cambridge Public Library, the income only to be used for the purchase of books. In each book purchased there is placed an appropriate book-plate.

Balance on deposit, March 31, 1921	\$436 50	
Receipts	209 14	
		<u>\$645 64</u>
Expenditures		86 67
		<u>\$558 97</u>
Balance on deposit, March 31, 1922		\$558 97
The principal is invested in 3½% Liberty Bonds		<u>\$5,000 00</u>

EDWARD H. WHORF FUND

Balance on deposit, March 31, 1921	\$695 33	
Receipts	120 00	
		<u>\$815 33</u>
Expenditures		249 85
		<u>\$565 48</u>
Balance on deposit, March 31, 1922		\$565 48
The principal is invested in three American Telephone and Telegraph Company bonds, Nos. 9755, 9756 and 9759.....		<u>\$3,000 00</u>

WILLIAM PENN HARDING FUND (\$1,000)

By a bequest to the City, on behalf of the Public Library, the sum of \$1,000, in accordance with the will of William Penn Harding, the money was turned over to the City Treasurer. The annual income shall be paid to the Trustees of the Public Library and is to be expended in the purchase of recent books on science, art or travel of a popular and instructive character. Said bequest shall be designated the William Penn Harding Fund, which designation shall be printed in all the books so purchased.

Balance on deposit, March 31, 1921	\$48 75	
Receipts	50 62	
		<u>\$99 37</u>
Expenditures		92 61
		<u>\$6 76</u>
Balance on deposit, March 31, 1922		\$6 76
Principal deposited in East Cambridge Savings Bank		<u>\$1,000 00</u>

Treasurer's Report of the William Penn Harding Fund

March 31, 1914—Deposited in East Cambridge Savings Bank..	\$1,000 00
March 31, 1922—The interest on said fund, amounting to \$50.62, was paid to the trustees of the Public Library, in accordance with the provision of the gift.	
The passbook of the East Cambridge Savings Bank shows that on March 31, 1922, the amount on deposit was.....	<u>1,000 00</u>

MEHITABLE C. C. WILSON FUND

Balance on deposit, March 31, 1921	\$732 85	
Receipts	18 30	
		<u>\$751 15</u>
Balance on deposit, March 31, 1922		<u>\$751 15</u>

The Trust Funds—Continued

ABIGAIL W. HOWE FUND

Bequest, January 3, 1920	\$31 51	
Receipts	127 20	
		<hr/>
		\$158 71
Expenditures		115 01
		<hr/>
Balance on deposit, March 31, 1922		\$43 70
		<hr/>
Principal in 3½% Liberty Bonds		\$3,000 00
		<hr/> <hr/>

SARAH E. RUSSELL FUND (\$814.41)

As provided in the will of Sarah E. Russell, of Cambridge, who died October 6, 1897, the sum of eight hundred fourteen dollars and forty-one cents was paid to the City by the executors of the will, "the income therefrom to be annually expended in or towards providing a Christmas tree or Christmas gifts and entertainments for the inmates at the time of the Cambridge Almshouse." Mrs. Russell was the widow of Hon. Charles Theodore Russell, and the mother of Hon. William E. Russell, each of whom served the city as Mayor.

Amount of deposit, March 31, 1921	\$814 41
Interest to March 31, 1922	41 20
	<hr/>
	\$855 61
Amount paid as per provision of bequest, December 12, 1921..	41 20
	<hr/>
Balance in Cambridgeport Savings Bank, March 31, 1922....	\$814 41
	<hr/> <hr/>

TREASURER'S REPORT OF THE SARAH E. RUSSELL FUND

The amount of the bequest was \$814.41, and was deposited in the Cambridgeport Savings Bank, where it now remains.

The interest accumulations, amounting to \$41.20 to December 1, 1921, have been paid to Mr. John T. Shea, Superintendent of the City Home, and were used as stipulated in the will of Mrs. Russell.

HENRY F. LEHAN, City Treasurer.

March 31, 1922.

JOHN WESLEY FREESE FUND (\$120.96)

This is a fund of \$89.36 bequeathed by the late John Wesley Freese in November, 1914. This sum is to accumulate for twenty years, after which time not more than three-fourths of the annual income is to be expended for books or works of art for the Houghton School.

TREASURER'S REPORT, JOHN WESLEY FREESE FUND

November, 1914—Deposit Cambridgeport Savings Bank	\$115 13
March 31, 1922—Interest on fund to date	5 83
	<hr/>
March 31, 1922—Amount deposited in bank	\$120 96
	<hr/> <hr/>

The Trust Funds—Concluded**TAILINGS ACCOUNT TRUST FUND**

This fund consists of various amounts due on payrolls and sundry drafts, which have remained in the hands of the Treasurer, awaiting payment to persons properly entitled to the same.

The amount of the Fund, March 31, 1921	\$5,018 57
Interest on Deposit to March 31, 1922	125 20
	<hr/>
	\$5,143 77

Balance on deposit Harvard Trust Co., March 31, 1922.....	<hr/>	\$5,143 77
---	-------	------------

**CITY AUDITOR'S STATEMENT OF PROVISIONS OF SECTION 54,
CHAPTER 41—GENERAL LAWS**

Under the provisions of Section 54, Chapter 41, General Laws, I hereby certify that I have this day examined the accounts, vouchers and securities belonging to the within Trust Funds, held for public use and find them to be correct and in excellent condition.

Attest:

CHARLES H. THURSTON, City Auditor.

March 31, 1922.

TAXES

The amount of taxes assessed by the Board of Assessors on the real and personal estates and polls of Cambridge, April 1, 1921, was as follows:

Valuation of real estate	\$127,274,600 00
Valuation of personal	18,637,472 00
	<hr/>
	\$145,912,072 00

Assessed at \$29.10 per \$1,000	\$4,246,041 30
31,681 polls at \$2.00	63,362 00
	<hr/>
	\$4,309,403 30

The tax is divided as follows:

For city purposes*	\$3,273,709 79
Deficit in Overlays of previous years	21,912 01
Overlay	71,801 40
	<hr/>
	\$3,367,423 20

State assessments:

State	\$402,920 00
Sewerage	159,936 17
Parks	96,090 47
Charles River Basin	17,056 37
Charles River Bridge, on account of bridge..	25,027 98
Alewife Brook	4,355 38
Smoke nuisance	657 98
Prevention of fires	1,152 28
Boston Elevated Deficit	973 16
Army and Navy Bonus	18,994 80
	<hr/>
	727,164 59

County assessments	214,815 51
	<hr/>
	\$4,309,403 30

Increase in real estate valuation	\$2,837,900 00
Decrease in personal valuation	1,369,200 00
	<hr/>
Increase in real and personal valuation over 1920	\$4,207,100 00
Decrease of 4,349 polls since last year.....	
	<hr/>

*To meet the City expenses the estimate of income from various departments is added to this sum raised by taxation.

Statement of the valuations of the personal property and real estate of the City of Cambridge, with the number of polls, dwellings, and rate of taxation for the past twenty years:

Year	Polls	Personal	Real Estate	Total	Dwellings	Rate per \$1,000
1900.....	25,117	17,865,230	76,600,700	94,465,930	13,713	16 90
1901.....	25,306	17,648,575	78,568,300	96,216,875	13,889	16 90
1902.....	25,680	17,742,985	80,396,900	98,139,885	13,846	18 30
1903.....	25,749	17,708,510	87,063,400	104,771,910	13,833	16 90
1904.....	25,968	17,346,500	87,481,100	104,827,600	13,858	17 90
1905.....	26,696	15,994,100	87,851,500	103,845,600	13,893	19 00
1906.....	26,434	16,550,235	88,603,000	105,153,235	13,937	18 60
1907.....	26,064	17,773,990	89,235,300	107,009,290	14,018	18 80
1908.....	25,815	16,854,775	90,026,300	106,881,075	13,969	20 10
1909.....	25,898	16,118,635	90,839,500	106,958,135	14,010	21 00
1910.....	26,660	18,774,935	92,021,800	110,796,735	13,150	20 10
1911.....	26,810	17,409,635	94,171,600	111,581,235	14,131	19 90
1912.....	28,110	18,621,000	97,326,300	115,947,300	14,191	20 40
1913.....	28,297	19,977,190	101,155,100	121,132,290	14,283	21 40
1914.....	28,620	23,054,995	104,836,400	127,891,395	14,508	21 40
1915.....	28,858	23,096,810	107,014,000	130,110,810	14,471	23 00
1916.....	28,939	23,381,270	108,258,300	131,639,570	14,469	23 50
1917.....	29,127	14,660,200	116,868,400	131,597,962	14,390	23 50
1918.....	31,184	16,385,984	118,175,700	134,520,700	14,415	25 00
1919.....	31,093	17,937,691	118,722,700	136,660,700	14,346	28 30
1920.....	36,030	17,268,272	124,436,700	141,704,972	14,128	31 30
1921.....	31,681	18,637,472	127,274,600	145,912,072	14,063	29 10

Abatements upon taxes for the past twenty years, and amount of tax uncollected March 31, 1922.

Year	Total Tax	Total Abatements	Amount of Tax uncollected March 31, 1922
1900.....	1,654,588 36	33,005 90	.....
1901.....	1,683,690 84	24,390 38	.....
1902.....	1,854,557 82	30,013 44	.....
1903.....	1,828,456 95	41,525 33	.....
1904.....	1,934,772 56	50,088 47	.....
1905.....	2,031,457 20	48,886 73	.....
1906.....	2,012,805 80	61,528 79	.....
1907.....	2,038,170 44	63,481 85	.....
1908.....	2,204,263 62	53,504 40	.....
1909.....	2,302,311 40	41,954 80	.....
1910.....	2,283,435 10	38,962 37	.....
1911.....	2,274,086 57	32,762 63	.....
1912.....	2,421,544 92	77,572 52	.....
1913.....	2,527,962 72	61,195 94	\$332 60
1914.....	2,806,390 01	66,369 44	506 60
1915.....	3,072,471 19	69,625 56	653 60
1916.....	3,162,823 18	56,269 48	31,308 05
1917.....	3,169,920 60	94,631 36	31,256 14
1918.....	3,426,410 10	81,869 60	36,745 08
1919.....	3,929,675 07	60,749 10	42,376 02
1920.....	4,512,800 71	72,217 66	307,257 19
1921.....	4,236,628 74	66,350 12	641,975 89

ABATEMENT CERTIFICATES ALLOWED BY BOARD
OF ASSESSORS

Taxes, Real, Personal and Polls, 1921	\$81,290 12
Taxes, Real, Personal and Poll, 1920	18,676 53
Taxes, Real, Personal and Poll, 1919	808 05
Taxes, Real, Personal and Poll, 1918	10 00
Taxes, Real, Personal and Poll, 1917	587 50
Moth Assessment, 1919	20
Moth Assessment, 1920	80
Moth Assessment, 1921	1 60
Total	\$101,374 80

BORROWING CAPACITY

The valuation of estates in this City for the years 1919, 1920 and 1921 are the same as originally made by the Board of Assessors during those years, and the same figures were reported by that Board to the Tax Commissioners for each of the years respectively. The valuations were subject to changes in each year, after such report was made, as shown by the following:

Net valuations of estates in the City of Cambridge, for the past three years, after adding the amounts of all supplementary warrants and deducting therefrom all abatements up to and including December 31, 1921:

Year	Total Valuation	Abatements	Net Valuation
1919.....	\$137,747,491 00	\$2,422,800 00	\$135,324,690 00
1920.....	142,366,972 00	2,703,500 00	139,663,472 00
1921.....	145,912,072 00	2,303,034 00	143,609,038 00
	<hr/>	<hr/>	<hr/>
	\$426,026,535 00	\$7,429,335 00	\$418,597,200 00

Showing an average valuation for the years 1919, 1920 and 1921 of \$139,532,400.00.

This sum represents the amount upon which the limit of municipal indebtedness is fixed under provision of Section 10, Chapter 44 of the General Laws.

Two and one-half per cent. (2½%) on same is..... \$3,488,310 00
Entire City Debt on December 31, 1921, was....\$8,817,200 00

Of this amount the following loans are "Outside" the legal debt limit, being exempted by the following Acts of Legislature:

Cambridge Bridge Loan:

Acts of 1898, Chap. 467, Funded \$1,640,000 00
Acts of 1898, Chap. 467, Serial. 48,000 00

Brookline Bridge Approach:

Acts of 1898, Chap. 467, Funded 25,000 00
Acts of 1898, Chap. 361, Funded

Commercial Avenue Bridge:

Acts of 1903, Chap. 372, Funded 50,000 00

Cambridge Bridge Special Loan:

Acts of 1904, Chap. 158, Funded 28,000 00

Harvard Bridge Loan:

Acts of 1887, Chap. 282, Funded
Acts of 1888, Chap. 73, Funded 10,000 00
Acts of 1891, Chap. 316, Funded

Park Loan:

Acts of 1892, Chap. 341, Funded
Acts of 1893, Chap. 337, Funded
Acts of 1894, Chap. 89, Funded
Acts of 1897, Chap. 469, Funded 1,600,000 00
Acts of 1899, Chap. 221, Funded
Acts of 1912, Chap. 578, Funded
Acts of 1912, Chap. 578, Serial . 74,000 00

Sewer Loan:

Acts of 1899, Chap. 473, Funded
Acts of 1899, Chap. 189, Funded 399,000 00
Acts of 1903, Chap. 383, Funded 267,000 00
Acts of 1903, Chap. 383, Serial . 96,500 00

Amounts carried forward\$4,237,500 00 \$8,817,200 00 \$3,488,310 00

Borrowing Capacity—Concluded

Amounts brought forward\$4,237,500 00 \$8,817,200 00 \$3,488,310 00

Hospital Loan:

Acts of 1895, Chap. 99, Funded 150,000 00

Cambridge City Hospital Loan:

Acts of 1911, Chap. 545, Serial . 102,000 00

Acts of 1919, Chap. 103, Serial . 134,000 00

Metropolitan Park Assessment:

Acts of 1908, Chap. 367, Funded 46,000 00

Playground Loan:

R. L. Chap. 27, Sec. 11, Funded 95,000 00

R. L. Chap. 27, Sec. 11, Serial . 23,200 00

4,787,700 00

Available "Inside" Debt Limit \$4,029,500 00

The entire Sinking Fund is..... \$3,514,328 01

Of this amount there should be de-
ducted on account of Exempted

Loans as follows:

Cambridge Bridge\$429,727 79

Harvard Bridge 51,824 01

Brookline Bridge 6,581 88

Commercial Ave. Bridge 13,163 83

Park 930,369 17

Improved Sewerage 248,339 90

Hospital 79,239 84

Met. Park Assessment.. 27,467 83

Cambridge Bridge Special 14,398 04

Sep. System of Drainage 98,534 03

Playgrounds 28,554 39

Cambridge Bridge, B. E. R. 257,500 00

Sinking Fund of Exempted Loans.. 2,185,700 71

Leaving Sinking Fund for General Loans..... 1,328,627 30

Net City Debt, December 31, 1921..... 2,700,872 70

Borrowing Capacity for City purposes for 1922..... \$787,437 30

1921 VALUATION AND TAX LEVY

Personal, Including Banks	Real Estate	Total Valuation
\$2,892,200 00	\$16,840,600 00	\$19,732,800 00
3,425,100 00	15,979,200 00	19,404,300 00
892,300 00	10,003,500 00	10,895,800 00
2,339,400 00	11,799,900 00	14,139,300 00
1,223,600 00	10,877,800 00	12,101,400 00
1,569,300 00	12,009,600 00	13,578,900 00
1,646,200 00	11,455,700 00	13,101,900 00
1,107,700 00	13,207,100 00	14,314,800 00
1,282,200 00	12,982,700 00	14,264,900 00
2,259,472 00	12,118,500 00	14,377,972 00
<hr/>	<hr/>	<hr/>
\$18,637,472 00	\$127,274,600 00	\$145,912,072 00

Bank	Resident	Non-Resident
Lechmere National	\$45,552 00	\$58,448 00
Manufacturers National	27,120 00	132,880 00
	<hr/>	<hr/>
	\$72,672 00	\$191,328 00

WARRANTS

City	\$3,273,709 79
County	214,815 51
State	402,920 00
State on account of Bonus	18,994 80
Metropolitan Parks	96,090 47
Metropolitan Sewer	159,936 17
Charles River on account of Bridge	25,027 98
Charles River Basin	17,056 37
Alewife Brook	4,355 38
Prevention of Flies	1,152 28
Gas and smoke	657 98
Deficit in Overlay	21,912 01
Investigation transit system in Dorchester	973 16
<hr/>	<hr/>
Total	\$4,237,601 90
Overlay	71,801 39
<hr/>	<hr/>
Total	\$4,309,403 29
Less 31,681 Polls at \$2.00	63,362 00
	<hr/>
	\$4,246,041 29

SCHEDULE B.

No. IX.

LIST OF CITY PROPERTY

AS FURNISHED BY

Executive Boards and Heads of Departments

FOR YEAR

1921 — 1922

LAW DEPARTMENT

1 roll top desk and chair	\$25 00
Revised Laws, Public Statutes, etc.	15 00
Dillon on Municipal Corporations, and other law books	75 00
2 filing cabinets	100 00
Typewriter	100 00
Book case	30 00
Desk and chair	40 00
	<hr/>
	\$385 00

PUBLIC PROPERTY DEPARTMENT

CITY BUILDINGS

	Feet of Land	Purchase of Land	Erection of Buildings	Valua- tion of Land	Valua- tion of Buildings	Valua- tion of Furniture
City Hall	47,878	1888	1888	\$100,000	\$180,000	\$34,800
Brattle Sq. Building...	16,153	1873	1874	35,700	60,000	2,500
Central Sq. Building...	13,028	1872	1873	13,000	60,000	2,436
Station 3	4,220	1862	1870	2,500	17,800	800
Station 4	6,316	1872	1873	5,600	21,200	300
				<hr/>	<hr/>	<hr/>
				\$156,800	\$339,000	\$40,836

Voting booth corner, Cambridge and Hampshire Streets	\$500 00	
Five portable voting booths	2,500 00	
Voting compartments and fixtures (500)	2,500 00	
	<hr/>	\$5,500 00

PERSONAL PROPERTY

2 Ford touring car and equipment	<hr/>	\$1,000 00
--	-------	------------

PROPERTY IN USE BY THE POLICE DEPARTMENT

Property in use by the Police Department April 1, 1922:

3 ambulances (motor)	\$5,200 00	3 messenger bags ...	9 00
1 ambulance (old motor)	100 00	1 operating table	4 00
2 automobiles	1,000 00	1 private telephone system	200 00
4 book cases	20 00	8 pair of handcuffs ...	32 00
19 blankets	38 00	1 pair of legirons	7 00
1 Bertillon book.....	1 00	190 police belts	570 00
1 camera and stand...	75 00	193 police badges	193 00
77 chairs	308 00	205 police clubs	205 00
9 clocks	25 00	2 Pulmotors	200 00
6 directories	30 00	197 police box keys	50 00
193 diaries	193 00	18 roll top desks	361 00
4 desk lamps	16 00	1 rug	30 00
6 filing cabinets	350 00	188 revolvers	3,500 00
4 flat desks	200 00	193 rules and regulations	50 00
6 fingerprint outfits ..	12 00	3 safes	45 00
195 fire-alarm keys	50.00	3 steel lockers	50 00
9 fire ropes	27 00	3 straight jackets	9 00
1 fan (electric)	20 00	1 set of law books ...	5 00
2 grappling irons	2 00	4 first aid charts	20 00
3 hand hoses	3 00	2 search lights	25 00
200 hat numbers	200 00	23 trafic belts	92 00
5 ice water tanks	5 00	2 typewriters	150 00
22 ink stands	11 00	3 tables	12 00
33 lanterns	33 00	4 wardrobes	20 00
1 Lungmotor	100 00	12 waste baskets.....	12 00
3 medicine cabinets ..	15 00		
1 motorcycle	400 00		
			<hr/>
			\$14,285 00

FIRE DEPARTMENT

REAL ESTATE

Buildings	Location	Land Purchase	Erection of Buildings	Land, Sq. Feet	Assessed Value	
					Land	Buildings
Engine House No. 1	108 Mt. Auburn St.... }	.....	.....	In City	Buildings	schedule
Ladder House No. 1	Eliot Square..... }					
Engine House No. 2	{ 384-391 Mass. Ave.... }	Owned by City				
Ladder House No. 3			1893	10,000	\$12,500	\$24,000
Engine House No. 3	35 Third Street.....	1895	1895	10,100	6,600	20,400
Engine House No. 4	Mass. Ave. and Blake St..	1896	1896	9,532	9,200	24,900
Engine House No. 5	Inman Square.....	Owned by City				
			1913-1914	6,000	7,000	48,000
Engine House No. 6	176 River Street.....	1890	1890-1891	4,994	3,000	12,000
Engine House No. 7	350 Main Street.....	Owned by City				
Engine House No. 8	{ Junction of Garden and		1894-1895	9,400	8,500	15,900
Ladder House No. 4	{ Sherman Street..... }	1903	1904-1905	10,380	3,600	30,000
Chemical Engine House No. 1.....	5 Western Avenue.....	.....	.....	In City	Buildings	schedule
Chemical Engine House No. 2.....	167 Lexington Avenue..	1893	1894	15,262	4,900	6,200
Ladder House No. 2	276 Portland Street.....	Owned by City	1887	7,610	4,900	12,000
					\$60,200	\$193,400

PERSONAL PROPERTY

Estimated Value, March 31, 1922

Apparatus	\$193,358 00	
Bedding, etc.	7,000 00	
Hardware and tools	1,000 00	
Horses and harness	1,500 00	
Miscellaneous	1,000 00	
Hose	16,000 00	
		\$219,858 00

FIRE ALARM AND POLICE TELEGRAPH

ELECTRICAL DEPARTMENT, WIRE ACCOUNT, EQUIPMENT

Fire alarm apparatus and machinery	\$20,000 00	
Fire alarm and police telegraph circuits	10,000 00	
147 fire alarm boxes	12,715 00	
Police signal apparatus and machinery	4,000 00	
102 police boxes	11,450 00	
Police signal reserve apparatus	100 00	
Testing instruments	150 00	
Tools	150 00	
Stock on hand	250 00	
Automobile truck	650 00	
Ford runabout	400 00	
Touring car	1,250 00	
Office furniture	350 00	
		\$61,465 00

HEALTH DEPARTMENT

REAL ESTATE

799 Concord Avenue—Tuberculosis Hospital

Value of buildings	\$92,600 00	
Value of land	9,800 00	
		<u>\$102,400 00</u>
Linen and bedding	\$2,500 00	
Instruments and nursing utensils	150 00	
Dishes and kitchen utensils	300 00	
General furnishing	4,000 00	
		<u>6,950 00</u>
		<u>\$109,350 00</u>

PERSONAL PROPERTY

In office:

7 desks and 6 desk chairs	\$150 00	
Card cabinet and letter files	650 00	
Dictionary and 3 atlases	25 00	
Typewriting machine and desk	75 00	
Stationery and sundries	250 00	
Medical books	100 00	
Duplicator and supplies	20 00	
Disinfecting apparatus and supplies	25 00	
		<u>1,295 00</u>

In laboratory:

Microscope	\$75 00	
Incubator and thermo-regulator	35 00	
Steriling oven	2 25	
Test tubes	5 00	
Diphtheria, sputum, and typhoid outfits	175 00	
Laboratory supplies	100 00	
Cards, card cabinet, stamps and stamp rack	50 00	
		<u>442 25</u>

At stable and garage:

Ambulance	\$1,500 00	
Ambulance blankets	25 00	
		<u>1,525 00</u>
		<u>\$112,612 25</u>

INSPECTION OF MILK AND VINEGAR

In laboratory:

Electric centrifuge	\$40 00	
Intermission refractometer	100 00	
Zeiss refractometer	75 00	
Drying oven	6 00	
Water bath	5 00	
Polariscope	20 00	
Analytical balance and weights	45 00	
Platinum dishes (7)	300 00	
		<u>\$591 00</u>

Amount carried forward \$591 00

Inspection of Milk and Vinegar—Concluded

Amount brought forward	\$591 00	
Chemicals and glassware	20 00	
Office furniture (desk and chairs)	10 00	
Discarded apparatus	5.00	
High speed centrifuge (1)	25 00	
Autoclave and furnishings	100 00	
Milk collecting outfit	15 00	
Apparatus for plating bacteria	8 00	
Petri dishes	5 00	
1 automobile	500 00	
		<hr/>
		\$1,304 00

CAMBRIDGE CEMETERY

61,113 acres of land	\$66,900 00	
1 office building (old)	2,500 00	
New office building	12,500 00	
1 house	3,500 00	
1 stable and shed	1,000 00	
Steel storage shed	600 00	
Personal property	5,000 00	
		<hr/>
		\$92,000 00

MUNICIPAL HOSPITAL

Land—Cambridge St., Line St. and Camelia Ave.	\$61,200 00	
Old buildings	14,000 00	
New buildings	300,000 00	
Instruments and apparatus	10,000 00	
Furnishings and equipment	20,000 00	
		<hr/>
		\$405,200 00

SEALER OF WEIGHTS AND MEASURES DEPARTMENT
INVENTORY OF PROPERTY

- Standards furnished by the Commonwealth.
- 1 Balance—5 grains to 100 lbs.
 - 1 Set (5) Avoirdupois Weights, 50-lb., 25-lb., 10-lb., 5-lb.
 - 1 Set (11) Avoirdupois Weights, 4 lb. to 1-16 oz.
 - 1 Kilogramme in case.
 - 1 Steel Meter in case.
 - 1 Brass Yard Measure.
 - 1 Set (5) Iron Dry Measures, 1-2 bush. to 1 quart.
 - 1 Set (6) Iron Liquid Measures, 1 gallon to 1 gill.

OFFICE FURNITURE

- | | |
|---------------------|-----------------------------|
| 1 Roll Top Desk | 1 Sink |
| 1 Black Walnut Desk | 5 Mats |
| 5 Chairs | 1 Set Revised Laws |
| 1 Table | 1 Set Card Records—Oak Case |
| 1 Clothes Press | 1 Set Card IndexOak Case |
| 1 Scale Cabinet | 1 Hektograph |
| 1 Wooden Cabinet | 1 Letter Press |
| 2 Benches | 1 Blotter Bath |

Sealer of Weights and Measures—Concluded

MISCELLANEOUS

Miscellaneous books	\$200 00
1 Express Wagon	100 00
1 Fung	23 00
2 Harnesses	70 00
3 Plush Robes	24 00
1 Stable Blanket	2 00
1 Rain Blanket	2 00
1 Woolen Blanket	8 00
1 Halter	75
1 Hitch Weight	50
1 Balance Scale	88 69
1 Platform Scale, 1-2 to 2,500 lbs.	75 00
1 Folding Platform Scale, 1-4 lb. to 600 lbs.	30 00
1 Balance, 1-10 milligramme to 500 grammes	35 00
1 Balance, 1-50 grain to 1-2 lb.	15 00
1 Sealer's Balance, 1 grain to 100 lbs.	150 00
2 Leather tool bags	9 50
1 Sealer's Balance, 1 grain to 8 lbs.	50 00
2 Sealer's Trip Scales (not used)	5 00
1 Spring Scale, 1 lb. to 125 lbs.	1 00
2 Sets (19) Avoirdupois Weights, 4 lb. to 1-8 oz.	10 00
1 Set (9) Troy Weights, 16 oz. to 1-8 oz.	3 00
1 Set (13) Metric Weights, 1 kilo to 1 gramme	5 00
5 Boxes Miscellaneous Weights (not standardized)	10 00
1 Set (3) Iron Weights, 25-lb., 10-lb., 5-lb.	5 00
40 50-lb. Weights	100 00
3 Glass Graduates	1 00
1 Arch	2 00
2 Ford automobiles	1,093 79
4 Sets Apothecary Weights	26 00
1 Set (21) Grain Weights, 1,000 gr. to 1-1000 gr.	13 50
1 Set (21) Metric Weights, 50 gram to 1-10	13 50
1 Set (5) Copper Dry Measures, 1-2 bushel to 1 quart	45 00
1 Set (3) Brass Dry Measures, 1 quart to 1-2 pint	5 00
2 Sets (14) Copper Liquid Measures, 1 gal. to 1 gill	30 00
1 Yard Measure	1 50
1 Iron Truck	5 00
1 5-gal. Copper Measure	15 00
1 Steel Tape	10 00
1 Pair of Inside Calipers	3 50
1 Set Brands	3 00
1 Plumbers' Furnace	5 00
Miscellaneous Tools	50 00
3 Record Books	15 00
4 Brading Irons	18 00
<hr/>	
\$2,378 23	
<hr/>	

CITY HOME

Thirty-two acres land bought August 7, 1849.

Present City Home completed and placed under the care of the Overseers of the Poor, April 3, 1851.

Land cost	\$12,000 00
City Home cost	32,970 69
Fences, furniture, etc., cost	3,000 00
Total	<u>\$47,970 69</u>

Hospital cottage on City Home ground built in 1866, moved and rebuilt in 1901, cost	\$2,800 00
Two-story brick building erected 1888, cost	5,600 00
Alterations and Addition to City Home, 1916	57,711 95
Land situated in Cambridge	14 242-1000 acres
Land situated in Somerville	4 454-1000 "
Lands (salable) on plan of April 10, 1884:	
30 lots of 5,000 ft. (in Somerville)	3 443-1000 "
Total acres of land	<u>22 139-1000 acres</u>

About seven acres of City Home land lying south of Broadway in West Somerville have been sold for house lots. The remaining lots (30) contain 150,000 square feet, and have been held at a valuation of four cents per square foot, but at the present time are assessed for about ten cents.

The valuation of the City Home real estate by the assessors is:

Land in Cambridge	\$52,200 00
Buildings in Cambridge	43,300 00
Land in Somerville	3,200 00
Total	<u>\$138,400 00</u>

INVENTORY OF PERSONAL PROPERTY AT CITY HOME

April 1, 1922

Bookkeeping account books, stationery, etc.	\$150 00
Drugs, medicines and hospital supplies	50 00
Dry goods, clothing, bedding, furniture, carpets, etc.	4,000 00
Groceries and provisions	300 00
	<u>\$4,500 00</u>

Farm and Stable:

2 horses, 8 fowls, 350 hot-bed sashes, 50 straw mats, 150 shutters, 5 wagons, 3 pungs, 4 harnesses, farming implements, tools, fertilizer, etc.	2,000 00
Total	<u>\$6,500 00</u>

**INVENTORY OF PERSONAL PROPERTY AT OVERSEERS' OFFICE,
CENTRAL SQUARE BUILDING, April 1, 1922**

Office furniture, filing cases, bookcases, typewriters, books, stationery, etc.	\$700 00
City Physicians' office—Instruments, microscope, operating table, furniture, medicine, etc	350.00
Total	<u>\$1,050 00</u>

ENGINEERING DEPARTMENT

PERSONAL PROPERTY

7 books at \$3.00 each	\$21 00
46 vols. engineering papers, at \$2.50 each	115 00
4 logarithm books	4 00
1 pantagraph	10 00
2 planimeters, at \$20.00 each	40 00
2 numbering machines, at \$5.00 each	10 00
1 typewriter	50 00
Drawing instruments, pens, compasses, etc.	25 00
Drawing materials and paper	25 00
Wye level	50 00
Dumpy level, \$40, hand level, \$5.00	45 00
2 transits, at \$100.00 each	200 00
Level, line and sounding rods	45 00
4 tapes	10 00
Testing pans, moulds, etc.	10 00
Testing machinery	25 00
Electric motor	8 00
Furniture in office	200 00
Photograph outfit	100 00
Rain gauges, standard and self-recording	75 00
Plans (estimated value) 13,669 at \$10	136,690 00
485 field, survey, line and level books, estimated value \$20..	9,700 00
65 house books, estimated value \$10.....	650 00
Post drill	10 00
Emery wheel	10 00
Total	<u><u>\$148,128 00</u></u>

SEWER DEPARTMENT

REAL ESTATE

Location	Buildings	Erected	Purchased	Feet of Land	Assessors' Valuation of Land	Assessors' Valuation of Buildings
Pilgrim Street.....	Stable	1887				
		1881				
Pilgrim Street.....	Sheds	1884				
		1892				
Pilgrim Street.....	House	1890	1868	23,707	\$12,800	\$4,300
				Total....	\$17,100	

SEWERS

164 miles of sewers which have cost to construct..... \$2,723,047 76

SEWER DEPARTMENT

PERSONAL PROPERTY—1921

2 C. B. cleaning carts, iron	\$100 00
1 wagon express	15 00
1 hoisting engine	125 00
2 gasoline engines	125 00
1 gasoline tamping machine	50 00
2 ejectors	50 00
1 Ford truck, 1920, Model T	200 00
1 1-ton trailer for above	25 00
1 Studebaker, 1921 Model	1,100 00
1 Federal truck, 3½ tons, 1917, for cleaning C. B.	3,000 00
1 Northway 2-ton truck, 1920	1,500 00
1 Ford 1-ton truck	400 00
2 pile driver hammers	40 00
4 hand pumps and hose	70 00
1 centrifugal pump	25 00
1 street roller (horse)	20 00
1 sewer cleaning machine, Healy	200 00
2 tool houses	50 00
4 dozen lanterns and globes	35 00
Tools and implements, shovels, picks, etc.	300 00
400 feet fishing hose	200 00
Stock on hand, brick, castings, lumber, pipe, cement, etc.....	400 00
1 Hauck thawing outfit	90 00
6 rubber hats	6 00
8 oil coats	25 00
10 oil pants	25 00
6 dozen rubber boots	125 00
1 4-legged derrick and fittings	50 00
Total	\$8,346 00

STREET DEPARTMENT

INVENTORY OF REAL AND PERSONAL PROPERTY

Real Estate

Location	Buildings and Land	Erec- tion of Build- ings	Pur- chase of Land	Feet of Land	Valua- tion of Land	Valua- tion of Build- ings
Raymond St....	City Yard and Stable, stable, sheds, scales etc.....	1897	1896	272,670	\$27,300	\$27,000
Hampshire St...	Incinerator plant.....	1912	....	.....	.....	5,000
	City Stable, sheds, sta- bles and scales, includ- ing old police station.	1885	....	72,661	32,400	16,000
E. S. Norfolk St.	Yard and pound.....	....	....	34,650	13,900	300
Acton, Mass....	Land, gravel bank.....	....	1896	.....	3,000	.....
Main St.....	Land and incinerator plant.....	1908	....	52,000	32,700	11,200
					\$109,300	\$59,500

PERSONAL PROPERTY

110 horses	\$30,000 00
15 watering carts	4,000 00
80 single and double carts	8,000 00
125 sets harness	2,000 00
2 concrete mixers, gasoline	1,000 00
1 concrete mixer, steam	5,000 00
7 automobiles	3,500 00
3 five-ton trucks	8,000 00
4 steam rollers	12,000 00
22 Shadbolt carts	8,000 00
1 Watson cart	200 00
300 feet straight edgestone	350 00
30,000 second hand vitrified brick	600 00
30,000 recut blocks	1,750 00
25,000 recut blocks	1,250 00
50 tons crushed stone	100 00
Oil storage, Portland Street	1,000 00
Oil storage, Raymond Street	1,000 00
Stone crushing plant, Raymond Street	1,000 00
Furnace, Main Street incinerator	7,000 00
Miscellaneous machinery	500 00
Miscellaneous tools, road machines, brooms, scrapers, machine brooms, waste barrels, push carts, etc.	9,000 00
Miscellaneous wagons, plows, pungs, etc.	2,000 00
Stock of grain, hardware, paints, and general shop supplies...	1,000 00
Total	<u>\$108,850 00</u>

BRIDGE DEPARTMENT

PERSONAL PROPERTY

Cambridge and Boston Bridges

Harvard Bridge	\$750 00
Prison Point Bridge	750 00
River Street Bridge	500 00
Cambridge Bridge	100 00
	<u>\$2,100 00</u>

SCHOOLHOUSES

	Feet of Land	Purchase of Land	Erection of Build- ings	Valuation of Land	Valuation of Buildings
Agassiz.....	26,034	1874-1915	1875-1915	\$11,800	\$122,100
Boardman.....	10,018	1866	1868	4,500	17,500
Bridge.....	4,646	1836	1836	1,200	.....
Ellis.....	25,700	1897	1898	7,600	50,000
Felton.....	15,090	1847	1848	7,000	14,500
Fletcher.....	24,364	1902	1903	8,600	94,400
Gannett.....	15,434	1876	1886	3,100	7,800
Gore.....	9,900	1871	1871	5,000	25,100
Haggerty.....	46,642	1880	1914	8,200	45,300
Harvard.....	20,494	1870	1871-1899	11,800	71,800
High and Latin.....	{ 74,366 79,579	.....	1891	92,500	689,200
Houghton.....	20,306	1894	1897	7,500	124,500
Kelley.....	25,536	1904	1904-1905	9,400	80,000
Lowell.....	12,033	1900	1902	5,500	6,500
Merrill.....	37,828	1883	1883	21,400	45,000
Morse.....	25,650	1864	1864	11,100	80,400
Parker.....	12,319	1889	1890	8,600	18,900
Peabody.....	37,296	.....	1893	22,900	68,000
Putnam.....	14,400	1887	1888-1898	8,700	65,900
Reed.....	12,000	1825	1889	1,700	4,000
Rindge Technical.....	97,128	1868	1868	48,700	78,300
Roberts.....	16,400	.....	1887	9,900	96,000
Russell.....	63,596	1898	1898	19,800	52,900
Shepard.....	14,755	1895	1896	10,900	29,300
Sleeper.....	36,584	1855	1856-1873	8,400	30,000
Tarbell.....	19,500	1894	1894	6,800	12,300
Taylor.....	25,278	1878	1882	9,300	37,500
Thorndike.....	41,273	1894	1895	14,400	100,000
Webster.....	35,508	1911	1912	11,100	154,600
Wellington.....	27,673	1866	1873-1885	11,500	133,000
Washington Bldg.....	.....	1875	1884-1909	14,400	138,200
Willard.....	20,079	.....	.....	8,000	26,100
Wyman.....	14,347	1869	1870	4,600	5,900
		1871	1871-1886		
				\$435,900	\$2,525,000

SCHOOL DEPARTMENT

PERSONAL PROPERTY

Text books	\$65,620 03
Desk and reference books	1,540 99
Apparatus and machinery	24,805 44
Furniture and furnishings	104,329 27
Stock on hand in storeroom	4,994 48
Total	\$201,290 21

PUBLIC LIBRARY

REAL AND PERSONAL ESTATE

141,666 feet of land, as per assessors' books.....	\$85,000 00	
Library building, as per assessors' books	95,300 00	
		<hr/>
		\$180,300 00
Estimated valuation of books in the library.....	\$100,000 00	
Estimated valuation of interior furnishings	8,000 00	
Estimated valuation of books in the East Cambridge Branch Library	4,000 00	
Estimated valuation of furnishings in the East Cambridge Branch Library	800 00	
Estimated valuation of books in the North Cambridge Branch Library	6,000 00	
Estimated valuation of furnishings in the North Cambridge Branch Library	1,400 00	
Estimated valuation of books in the Cambridgeport Branch Library	4,000 00	
Estimated valuation of furnishings in the Cambridgeport Branch Library	1,000 00	
Estimated valuations of books in the Cambridge Field Branch Library	2,500 00	
Estimated valuation of furnishings in the Cambridge Field Branch Library	800 00	
Estimated valuation of books in the Mount Auburn Branch Library	1,500 00	
Estimated valuation of furnishings in the Mount Auburn Branch Library	600 00	
		<hr/>
		130,600 00
		<hr/>
		\$310,900 00

The lot (about 590x240 feet) occupied by the library building is bounded by Broadway, Irving, Cambridge and Trowbridge streets. The land and buildings were presented to the City of Cambridge by Mr. Frederick H. Rindge in June, 1889, on the completion of the building, which was begun in the autumn of 1887. In 1894 a wing was added to the building at a cost to the city of \$20,000, and in 1902 an addition to the stack was made at an expense of about \$30,000.

The trustees of the library also hold the following funds, invested in the bonds of the City of Cambridge:

Citizens' Subscription Fund:

Liberty Bonds, 4 per cent.	\$5,000 00	
Sewer loan bond No. 47, due October 1, 1925, 4 per cent	500 00	
		<hr/>
		\$5,500 00

Cummings Fund:

Liberty Bonds at 4 per cent.	2,000 00
-----------------------------------	----------

Fay Fund:

10 Liberty Bonds at 3 per cent.	1,000 00
--------------------------------------	----------

William Penn Harding Fund:

Deposited in East Cambridge Savings Bank, Book No. 58,916	1,000 00
---	----------

William E. Saunders Fund:

Fourth Liberty Bonds at 3½ per cent.	\$7,000 00	
Deposited in Cambridgeport Savings Bank	735 81	
		<hr/>
		7,735 81

PUBLIC LIBRARY—Concluded

Edward H. Whorf Fund:

Three American Tel. & Tel. Co. bonds, Nos. 9755, 56, 57, due July 1, 1929, 4 per cent.	\$3,000 00
--	------------

Mehitable C. C. Wilson Fund:

Deposited in the Harvard Trust Savings Bank	751 15
---	--------

James A. Woolson Fund:

Fourth Liberty Bonds at 3½ per cent.	5,000 00
---	----------

Abigail W. Howe Fund:

Three \$1,000 Liberty Bonds, 3½ per cent.	3,000 00
--	----------

Total	<u>\$28,986 96</u>
-------------	--------------------

PARK DEPARTMENT

LAND

Commons and Squares:	Square Feet	Valuation
Garden Street, Massachusetts Avenue and Waterhouse Street	370,784	\$370,000 00
Massachusetts Avenue and Peabody Street....	23,073	46,000 00
Massachusetts Avenue, Cambridge Street and Kirkland Street	33,357	66,000 00
Massachusetts Avenue and Holmes Place	20,956	41,900 00
Massachusetts Avenue and Waterhouse Street	13,180	19,800 00
Broadway Common	107,181	55,000 00
Fort Washington	42,123	21,100 00
Dana Square	33,531	18,000 00
Hastings Square	30,000	15,000 00
Winthrop Square	11,565	28,900 00
Arsenal Square	3,189	3,200 00
Pleasant Street and River Street	1,569	900 00
Pleasant Street and Western Avenue	1,272	1,000 00
Massachusetts Avenue and Arrow Street	872	2,200 00
Longfellow Park	93,618	35,300 00
Washington Elm	886	960 00
Total		<u>\$725,260 00</u>

CITY PROPERTY

MISCELLANEOUS REAL ESTATE

Lot on northwest corner Main and First Streets	13,690	\$24,600 00
Lot on Clifton Street	6,000	800 00
Lot on Reed Street	1,500	200 00
Lot on Portland Street	18,011	11,400 00
Lot on Harvard (near Prospect Street)	10,050	7,000 00
Lot on New Street (Old Hospital site).....	30,940	2,300 00
Lot on Reservoir Street (Old Hospital site)	16,624	7,000 00
Lot on Holworthy Street	10,000	2,500 00
		<u>\$55,800 00</u>

PLAYGROUNDS AND EQUIPMENT

LAND

	Square Feet	Valuation
Cambridge Field and Shelter	528,154	\$264,000 00
Rindge Field and Shelter	501,729	107,400 00
East Cambridge Embankment	349,828	437,000 00
Russell Field	882,410	44,200 00
Houghton School	11,804	4,900 00
Peabody School	9,664	6,400 00
Morse School	13,561	4,400 00
Wellington School	8,144	3,400 00
Fletcher School	10,187	4,100 00
Thorndike Field schoolyard and playground	136,821	46,900 00
Mill Pond	172,813	43,200 00
Ward Ten playground	95,657	29,600 00
Ward Eight playground	20,820	4,600 00
Total		\$1,000,490 00
Buildings		189,300 00
Equipment		58,553 36
Total		\$1,248,253 36

SCHEDULE B.

No. X.

EXEMPTED PROPERTY

The following is a schedule of property used for religious, charitable and educational purposes, and exempt from taxation by law, including property owned by the County of Middlesex, not including that owned by the City of Cambridge, as shown on the Assessors' Books, March 31, 1922.

RETURN OF EXEMPTED PROPERTY FROM TAXATION IN THE CITY OF CAMBRIDGE

1922-1923

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
Apostolic Pentecostal Church of New England	Church	\$1,700 00	
Avon Home	Building	18,700 00	\$26,843 57
Baptist Home	1 House and Stable	21,000 00	100,881 67
Bishop, Leverett J., Wellington Bears, Hector McDougall and William C. Abbott, Treasurers of the Church of Scotland. Unattached and George A. Richards for tax	Church	9,900 00	
Boston Missionary and Church Extension Society of the Methodist Episcopal Church	Church	31,900 00	
Broadway Baptist Church ...	Church	23,000 00	
Browne & Nichols School, Inc.	Buildings	123,600 00	17,513 88
Buckingham School, The	School	124,900 00	17,271 76
Burton, Joseph S. and Edwin J. Sheffield and Charles A. Swinerton, Trustees	Lot	3,400 00	
Cambridge Home for Aged People	Building	135,300 00	248,937 80
Cambridge Hospital	Hospital and Nurses' Home	438,100 00	315,275 88
Cambridge Neighborhood House, Inc.	Lot and Building	10,100 00	5,770 70
Cambridge School for Girls, Inc.	Buildings	56,200 00	2,000 00
Cambridge Social Union	Buildings	29,500 00	1,186 06
Cambridge Visiting Nursing Association	1 House	12,700	12,427 08
Cambridge Young Men's Christian Association	Building	235,000 00	39,089 46
Cambridge Young Women's Christian Association	Building	88,800 00	67,820 86
Christ Church Episcopal ...	Church	55,000 00	
Church of the Ascension ...	Church	11,300 00	
Columbus Day Nursery of Cambridge	1 House	17,500 00	1,207 35
Congregation Agndath Awhkenazino of Cambridge....	Building	8,300 00	1,000 00
Congregation Beth Israel of Cambridge	Synagogue	36,000 00	
Congregation and Talmud Torah Yabna	Church	32,700 00	
Co-operative Open Air School Corporation of the New	School Buildings	15,300 00	3,005 93
Church Theological School	1 House, Stable, Chapel	158,800 00	141,398 89

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
Cragwell, Alfred E., John Blackman, Hubert Allyne, Trustees of the Christian Mission	Building	8,300 00	
East End Union Mission Church	Church	6,000 00	
Episcopal Theological School, Trustees of	Buildings	397,100 00	860,363 06
Epworth M. E. Church	Church	114,800 00	
First Baptist Church of Cambridge	Church	123,500 00	
First Church in Cambridge Congregational	Church	218,000 00	
First Church of the Evangelical Association of North America	Church	14,000 00	
First Holiness Church of the Apostolic Faith of Cambridge	Church	5,900 00	
First Parish Church Unitarian	Church	132,000 00	
First Pentecostal Church of the Nazarine of Cambridge	Building	17,100 00	
First Reformed Presbyterian Church of Cambridge	Church	11,500 00	
First Swedish Baptist Church of Cambridge	Church	19,300 00	
First United Presbyterian Church of Cambridge, Trustees	Church	13,900 00	
First Universalist Society of Cambridge	Church	30,900 00	
Grace M. E. Church	Church	22,400 00	
Harvard Lampoon Club			2,500 00
Harvard St. M. E. Society...	Church	61,200 00	
Hebrew Literary Association of Cambridge and Somerville	Building		1,000 00
Hellenic Orthodox Community of Cambridge	1 House	5,800 00	
Holy Ghost Hospital for Insurable	Buildings	213,400 00	17,042 71
Immanuel Baptist Church ...	Church	35,800 00	
Kimble, James J., L. Leverock and S. W. Lambert, Trustees of Heard's Chapel of North Cambridge of the African Methodist Episcopal Church in the United States of America	Church	2,400 00	
Lamson Home	1 House	7,000 00	
Leavitt, Blanche C., sidewalk assessment (Hebrew Literary Association of Cambridge and Somerville, equite)	Building	17,600 00	

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
Longfellow Memorial Ass'n..			528 66
Massachusetts Ass'n for Promoting the Interest of the Adult Blind	Building	29,900 00	12,358 63
Massachusetts Baptist Missionary Society	Church	19,300 00	
Massachusetts Commonwealth	Buildings	606,800 00	
Massachusetts Commonwealth of and City of Cambridge for tax	Lot	10,700 00	
Massachusetts Commonwealth of and City of Cambridge for tax and Mary M. Maguire for tax	Lot	23,000 00	
Massachusetts Institute of Technology	Buildings	6,694,600 00	17,440,904 89
Middlesex Charitable Infirmarys, Inc.	Building	3,800 00	
Middlesex College of Medicine and Surgery	Buildings	91,400 00	
Middlesex, County of	Buildings	1,403,800 00	50,000 00
Miller, Robert A., William H. Boone, Thomas J. Williams, Edgar F. M. Willoughby, Richard Cox, Rufus Marshall and George F. Johnson, Trustees of St. Paul African Methodist Episcopal Church	Church	31,200 00	
Mt. Auburn Cemetery Corporation	Pt. of Cemetery	50,700 00	
North Avenue Baptist Church	Church	80,700 00	
North Avenue Congregation Society	Church	50,500 00	
North Avenue Orthodox Congregational Society	Lot	10,500 00	
Old Cambridge Baptist Society	Church	219,000 00	
Pilgrim Congregational Church	Church	39,300 00	
President and Fellows of Harvard College	Buildings	12,796,700 00	24,765,807 56
Prospect Congregational Church	Church	27,700 00	
Prospect Union Ass'n	Building	57,800 00	16,713 00
Radcliffe College	Buildings	1,049,300 00	1,995,638 98
Roman Catholic Archbishop of Boston	Buildings	1,120,600 00	1,500 00
Rush African M. E. Zion Church	Church	6,300 00	
Sacred Heart School Ass'n of Cambridge	Church	122,300 00	4,170 00
St. Bartholomew's Chapel in Cambridge	Church	17,900 00	

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
St. James Parish	Lot	9,700 00	
St. Mary's Parochial School..	Buildings	361,700 00	
Right Reverend Stephen Uhro-Russian Greek Orthodox Bishop of Pittsburg, Diocese and his successors in trust	Church	4,000 00	
St. Paul's Roman Catholic Church	Church	64,000 00	
St. Paul's Roman Catholic School Ass'n	Buildings and Church	216,300 00	4,500 00
St. Peter's Parish Hall Corporation	Building	18,400 00	2,000 00
St. Philip's Episcopal Church	Church	8,600 00	
Salvation Army of Massachusetts	Building	11,500 00	200 00
Society of St. John the Evangelist	Lot	25,100 00	
Stratton, Charles F., Warren H. Dunning and Edwin S. Chapin, Trustees	Building	9,100 00	
Swedish Evangelical Lutheran Augustana Church...	Church	18,900 00	
Swedish Evangelist Missionary Church of Cambridge..	Church	27,200 00	
Third Congregational Society in Cambridge	Church	51,000 00	
Third Universalist Society...	Church	78,000 00	
Trustees of Andover Theological Seminary	Building	381,700 00	781,141 00
Trustees of Donations of the Protestant Episcopal Church in the Diocese of Massachusetts	Church	19,600 00	
Trustees of Donations of the Protestant Episcopal Church	Church	92,800 00	
United States of America and City of Cambridge for tax..	Buildings	252,400 00	
Western Avenue Baptist Tabernacle Church	Building	3,500 00	
Wheelwright, John T., Roger L. Scaife and Arthur H. Weed, Trustees	Building	13,800 00	

RECAPITULATION

Literary	\$15,941,000 00	\$28,616,739 38
Scientific	6,780,00 00	17,440,904 89
Charitable	919,000 00	740,945 39
Benevolent	358,000 00	106,910 32
Religious	3,056,300 00	2,500 00
Cemetery	50,700 00	
Miscellaneous	2,296,700 00	50,000 00
<hr/>		
Total	\$29,407,700 00	\$46,957,999 98
Real Estate		\$29,407,700 00
Personal		46,957,999 98
<hr/>		
Total		\$76,365,699 98
City of Cambridge		8,023,300 00

REPORT OF CITY TREASURER

LETTER OF TRANSMITTAL

City of Cambridge, Mass.

Office of the City Treasurer, April 1, 1922.

To the Honorable, the City Council:

In compliance with the provisions of Chapter 56 of the revised ordinances of 1892, amended to November 8, 1899, compiled to November 10, 1913, concerning "Annual reports of officers and Boards in charge of Departments," I respectfully submit herewith a detailed report of the receipts and expenditures of the public funds by the Treasury Department during the year ending March 31, 1922, including an account of all bonded and temporary loans negotiated in said year, also a detailed account of official fees received and reports of all trust funds in the care of the City Treasurer. In addition to the above, a report of the Commissioners of the Sinking Funds of the City, together with a report of the Committee of Finance, is included.

Very respectfully,

HENRY F. LEHAN,

City Treasurer.

TRIAL BALANCE TREASURER'S LEDGER, APRIL 1, 1922

	Dr.	Cr.
Cash	\$432,061 77	
Taxes 1913	334 60	
" 1914	506 62	
" 1915	653 60	
" 1916	31,308 05	
" 1917	31,256 14	
" 1918	36,745 08	
" 1919	42,376 02	
" Real 1920	307,257 19	
" Real 1921	740,975 89	
Sprinkling 1915	14 00	
" 1916	30 39	
" 1917	132 40	
Moths 1915	7 91	
" 1916	6 08	
" 1917	10 01	
" 1918	6 78	
" 1919	7 93	
" 1920	77 86	
" 1921	204 78	
Apportioned Sewer 1920	86 49	
" " 1921	471 02	
Committed Sewer Interest	136 57	
Sewer Assessments	951 75	
Sidewalk Assessments	9,117 28	
Committed Sidewalk Interest	47 72	
Apportioned Sidewalks 1915	16 33	
" " 1916	23 92	
" " 1920	38 67	
" " 1921	388 85	
Health Department	20,025 62	
Sewer Maintenance	351 67	
Street Department	6,514 14	
Overseers of Poor	21,262 78	
Municipal Hospital	31,315 45	
Soldier's Benefits	2,762 14	
School Department	5,149 05	
Park Department	739 87	
Cemetery Department	5,510 85	
Annual Water	9,841 15	
Metered Water	17,571 93	
Miscellaneous Water	6,932 05	
Tax Liens	54,705 30	
Tax and Assessments variations	225 94	
Accounts Payable		\$12,000 00
Anticipation Revenue Loans		1,250,000 00
Premium on Loans		17,906 74
Treasury Cash Variations		1,440 46
State Tax		21,606 00
Abatements prior to 1916	131,994 09	
Overlay 1917	587 50	
" 1918		13,126 53
" 1919	714 66	
" 1920	14,607 50	
" 1921		7,107 89
Amount carried forward	-1,966,063 39	1,323,187 62

	Dr.	Cr.
Amount brought forward	\$1,966,063 39	\$1,323,187 62
Sewer Assessment Revenue		1,645 83
Sidewalk Assessment Revenue		9,632 77
Department Revenue		94,129 71
Water Revenue		34,345 13
Water Cash Surplus		182,146 65
Sale of City Land		26,000 00
Excess and Deficiency		145,812 92
Purchase Land Cedar Street	223 00	
School Department Balances		46,395 34
Harvard Trust Tailings	5,143 77	
Loans Authorized	370,000 00	
Water Department Construction	9 53	
Tailings		5,143 77
Water Construction Bills		584 53
Five Year Balances		224 10
Non-Revenue Appropriations		478,936 32
C. C. Dog Licenses		255 00
From S. F. Commission	7,000 00	
Total	\$2,348,439 69	\$2,348,439 69

TEMPORARY LOAN IN ANTICIPATION OF REVENUE NEGOTIATED
DURING THE YEAR ENDING MARCH 31, 1922

Date	Maturity	Amount	Discount per annum
April 14, 1921.....	Oct. 24, 1921.....	\$500,000 00	5.95% plus \$10 00
May 18, 1921.....	Dec. 1, 1921.....	300,000 00	5.72% " 2 25
June 21, 1921.....	Dec. 7, 1921.....	400,000 00	6.18%
July 13, 1921.....	Oct. 31, 1921.....	300,000 00	5.70% " 1 00
Aug. 8, 1921.....	Nov. 8, 1921.....	300,000 00	5.38% " 2 50
Sept. 13, 1921.....	Oct. 14, 1921.....	200,000 00	5.50%
Dec. 6, 1921.....	April 13, 1922.....	500,000 00	4.10% " 3 75
Dec. 20, 1921.....	May 10, 1922.....	500,000 00	4.45%
Mar. 15, 1922.....	Nov. 1, 1922.....	250,000 00	4.17% " 2 50
Total		\$3,250,000 00	

PARTICULARS CONCERNING BONDS NEGOTIATED DURING THE YEAR ENDING MARCH 31, 1922

Date of Bonds	Amount	Loan	Years to Run	Rate	Purchaser	Rate
Oct. 1, 1921	\$57,000 00	Street Construction.....	\$12,000 annually for 2 years	5½%	Syndicate composed of Edmunds Bros., F. S. Moseley & Co. and Old Colony Trust Company	100.017
Oct. 1, 1921		Street Construction.....	11,000 annually for 3 years			100.017
Oct. 1, 1921	30,000 00	Street Construction.....	6,000 annually for 5 years			100.017
Oct. 1, 1921	55,000 00	Add. Dept. Equipment	11,000 annually for 5 years	5%		100.017
Oct. 1, 1921	18,000 00	School House	2,000 annually for 9 years	5%		100.017
Oct. 1, 1921	232,000 00	Street Construction	24,000 annually for 2 years	4½%		100.017
Oct. 1, 1921		Street Construction	23,000 annually for 8 years			100.017
Oct. 1, 1921	45,000 00	Building	3,000 annually for 5 years	4½%		100.017
Oct. 1, 1921		Building	2,000 annually for 15 years			100.017
Oct. 1, 1921	319,000 00	Water	11,000 annually for 29 years	4½%		100.017
Oct. 1, 1921	60,000 00	Sewer Construction	2,000 annually for 30 years	4½%		100.017
Oct. 1, 1921	45,000 00	Sewer Separate System	1,500 annually for 30 years	4½%		100.017
Total	\$861,000 00					

RECAPITULATION

Street	\$319,000 00
Additional Departmental Equipment	55,000 00
School House	18,000 00
Building	45,000 00
Water	319,000 00
Sewer Construction	60,000 00
Sewer Separate System	45,000 00
	<hr/>
	\$861,000 00

FEES

During the year ending March 31, 1922, the Treasurer has received official fees amounting to \$4,132.80, itemized as follows:

Tax Sale:	
Preparation	\$134 50
Advertising	188 60
Deeds	222 00
Recording	74 10
Releases	57 00
Certificates of Liens	472 00
Affidavits	24 00
Posting	127 00
Demand	52 00
Examination of Title	55 00
Statutory Fee	21 00
Tax Summonses	1,205 60
Services of department in collection of water rates, etc.....	1,500 00
	<hr/>
	\$4,132 80

These fees were turned into the City Treasury as received.

REPORT OF TRUST FUNDS IN HANDS OF CITY
TREASURER

CEMETERY TRUST FUNDS

The following is the condition of the funds:

Amount of Perpetual Care Fund March 31, 1921.....	\$134,921 47
Amount of Deeds in Trust Fund	442 00
Received from owners of Lots for perpetual cars.....	5,978 50
Received discount on bonds purchased	682 80
	<hr/>
	\$142,024 77

The Assets of the Funds are:

Registered bonds of the City of Cambridge.....	\$1,150 00
Registered Liberty Bonds of the United States ..	111,000 00
Coupon Bonds of the United States	29,000 00
Cash in Harvard Trust Company, March 31, 1922	874 77
	<hr/>
	\$142,024 77

Cash Account

Dr.

Cash on hand, March 31, 1921	\$913 47
Received from owners of lots for Perpetual Care.....	5,978 50
Received from bonds matured during the year	3,300 00
Received from interest on investments	5,969 76
Received from discount on bonds purchased.....	682 80
	<hr/>
	\$16,844 53

Cr.

Paid to Cemetery Commissioners for care of lots in perpetual care	\$5,899 87	
Paid for bonds purchased	10,000 00	
Paid interest accrued on bonds purchased	69 89	
Balance on deposit Harvard Trust Co., March 31, 1922	874 77	
		<hr/> \$16,844 53

Bond Account

Amount of Bonds in Fund March 31, 1921.....	\$134,450 00
Amount of bonds purchased	10,000 00
	<hr/> \$144,450 00
Bonds matured during the year	3,300 00
	<hr/> \$141,150 00

List of Bonds Belonging to the Cemetery Trust Funds

City of Cambridge Registered.....	3½	May	1, 1925	\$950 00
City of Cambridge Registered.....	3½	Sept.	1, 1932	200 00
U. S. 3rd Liberty Loan Registered	4¼	Sept.	15, 1928	111,000 00
U. S. 3rd Liberty Loan Coupon.....	4¼	Sept.	15, 1928	17,000 00
U. S. 4th Liberty Loan Coupon.....	4¼	Oct.	15, 1938	12,000 00
				<hr/> \$141,150 00

William Penn Harding Fund

Amount of Fund March 31, 1921	\$1,000 00
Received and paid to the Trustees of the Cambridge Public Library interest on fund	50 62
The Pass Book of the East Cambridge Savings Bank shows that on March 31, 1922 the amount of deposit was.....	1,000 00

John Wesley Freeze Fund

Amount of the Fund March 31, 1921	\$115 13
Interest added to deposit	5 83
	<hr/> \$120 96

Balance in Cambridgeport Savings Bank, March 31, 1922..... \$120 96

Tailings Account

Amount of Fund, March 31, 1921	\$5,018 57
Interest received on deposit	125 20
Balance March 31, 1922, on deposit at Harvard Trust Co.	\$5,143 77

Bridge Charitable Fund

Amount of Fund, March 31, 1921	\$2,843 00
Interest for the year	\$143 93
Two-thirds paid to Overseers of Poor	95 96
One-third added to Principal	47 97
	<hr/>

Total of Fund, March 31, 1922 \$2,890 97

Sarah E. Russell Fund

Amount of Fund, March 31, 1922	\$814 41
Received for interest \$41 20 and paid to John T. Shea, Superintendent of City Home.	

Hopkins Fund

Dr.

March 31, 1921, balance on hand	\$214 28
Received from Treasurer of Hopkins Fund	855 40
Received from interest on deposits	8 70
	<hr/> \$1,078 38

	Cr.		
Paid City of Cambridge for tuition		\$320 00	
Paid Anita Carley		35 00	
Paid Grace Richmond		10 00	
Paid Mary Campbell		15 00	
Paid for Supplies		275 96	
		<hr/>	
		\$655 96	
Balance on deposit at Harvard Trust Co., March 31,			
1922		\$422 42	
		<hr/>	
			\$1,078 38

City Auditor's statement of provisions of Section 1, Chapter 322, Acts of 1904.

Under the provisions of Section 1, Chapter 322, Acts of 1904, I hereby certify that I have this day examined the accounts, vouchers and securities belonging to the within Trust Funds held for public use and find them to be correct and in excellent condition.

Attest:

CHARLES H. THURSTON,

City Auditor.

The bonded City Debt matures as follows:—

Issued serially, provided for in the annual tax levy.

Apr.	1, 1922,	Sewer Construction . . .	4½s	500 00
May	1, 1922,	Street	4s	1,500 00
May	1, 1922,	Sewer Sep. System . . .	4s	1,000 00
May	1, 1922,	Sewer	3½s	500 00
May	1, 1922,	Cambridge Bridge . . .	4s	2,000 00
July	1, 1922,	Street	4s	1,000 00
July	1, 1922,	Street	4s	3,500 00
July	1, 1922,	Street	3½s	2,500 00
July	1, 1922,	Street	4s	2,000 00
July	1, 1922,	Building	4s	4,000 00
July	1, 1922,	Sewer	4s	500 00
July	1, 1922,	Sewer Sep. System . . .	4s	500 00
July	1, 1922,	Playground	4s	1,500 00
July	1, 1922,	Park	4s	1,000 00
July	1, 1922,	School House	4½s	3,250 00
July	1, 1922,	Building	4½s	5,500 00
July	1, 1922,	Street	4½s	9,300 00
July	1, 1922,	Street	4s	4,800 00
July	1, 1922,	Street	4s	3,500 00
July	1, 1922,	Bridge	4s	400 00
July	1, 1922,	Sewer Sept. System . . .	4s	1,000 00
July	1, 1922,	Park	4s	1,000 00
July	1, 1922,	Street	4s	500 00
July	1, 1922,	Street	4½s	2,000 00
July	1, 1922,	Street	4s	1,000 00
Aug.	1, 1922,	Street	4s	12,000 00
Aug.	1, 1922,	Street	4s	1,000 00
Sept.	1, 1922,	Street	4s	6,000 00
Sept.	1, 1922,	Street	4½s	800 00
Sept.	1, 1922,	Hospital	4½s	3,000 00
Sept.	1, 1922,	Park	3½s	2,000 00
Sept.	1, 1922,	Building	4½s	1,000 00
Sept.	1, 1922,	Street	4½s	7,000 00
Oct.	1, 1922,	Street	4s	2,750 00
Oct.	1, 1922,	Street	3½s	6,350 00
Oct.	1, 1922,	Street	4s	500 00
Oct.	1, 1922,	Street	4½s	500 00
Oct.	1, 1922,	Street	4½s	2,000 00
Oct.	1, 1922,	Street	4½s	10,000 00
Oct.	1, 1922,	Street	4½s	1,000 00
Oct.	1, 1922,	Street	4½s	10,000 00
Oct.	1, 1922,	Street	4½s	2,500 00
Oct.	1, 1922,	Street	4½s	20,000 00
Oct.	1, 1922,	Sewer Construction . . .	4½s	500 00
Oct.	1, 1922,	Sewer Construction . . .	4½s	1,500 00
Oct.	1, 1922,	School House	4½s	1,000 00
Oct.	1, 1922,	Hospital	4½s	8,000 00
Oct.	1, 1922,	Street	5½s	14,000 00
Oct.	1, 1922,	Street	5½s	4,000 00
Oct.	1, 1922,	Street	5½s	3,000 00
Oct.	1, 1922,	Street	5½s	4,000 00
Oct.	1, 1922,	Dept. Equipment	5½s	10,000 00
Oct.	1, 1922,	School House	5s	500 00

Amount carried forward\$189,150 00

Amount brought forward			\$189,150 00
Oct. 1, 1922,	Street	5s	1,500 00
Oct. 1, 1922,	Street	5s	14,000 00
Oct. 1, 1922,	Sewer	5s	1,000 00
Oct. 1, 1922,	Hospital	5s	2,500 00
Oct. 1, 1922,	Sewer	5s	1,000 00
Oct. 1, 1922,	Sewer	5s	500 00
Oct. 1, 1922,	Street	5½s	12,000 00
Oct. 1, 1922,	Street	5½s	6,000 00
Oct. 1, 1922,	Dept. Equipment	5½s	11,000 00
Oct. 1, 1922,	School House	5s	2,000 00
Oct. 1, 1922,	Street	5s	24,000 00
Oct. 1, 1922,	Building	4½s	3,000 00
Oct. 1, 1922,	Sewer Cons't	4½s	2,000 00
Oct. 1, 1922,	Sewer Sep. System	4½s	1,500 00
Nov. 1, 1922,	Sewer	3½s	500 00
Nov. 1, 1922,	Street	4s	5,000 00
Dec. 1, 1922,	Street	4s	700 00
Dec. 1, 1922,	Municipal	4s	1,000 00
Dec. 1, 1922,	Street	4s	400 00
Dec. 1, 1922,	Sewer Sep. System	4s	500 00
Dec. 1, 1922,	Dept. Equipment	4½s	7,000 00
Dec. 1, 1922,	Street Cons't	4½s	20,000 00
Dec. 1, 1922,	Street Cons't	4½s	3,250 00
Dec. 1, 1922,	Building	4½s	3,000 00
Dec. 1, 1922,	Sewer Cons't	4½s	1,000 00
Dec. 1, 1922,	Sewer Cons't	4½s	500 00
Dec. 1, 1922,	Playground	4s	300 00
Jan. 1, 1923,	Sewer	4s	500 00
Jan. 1, 1923,	School House	4s	3,250 00
Feb. 1, 1923,	Street	4s	600 00
Feb. 1, 1923,	Building (School House)	4s	500 00
Mar. 1, 1923,	Hospital	4s	4,500 00
Mar. 1, 1923,	Building (Hospital)	4s	2,000 00
Mar. 1, 1923,	Sewer	4s	500 00
Apr. 1, 1923,	Sewer Construction	4½s	500 00
May 1, 1923,	Sewer Sep. System	4s	1,000 00
May 1, 1923,	Sewer	3½s	500 00
May 1, 1923,	Cambridge Bridge	4s	2,000 00
July 1, 1923,	Sewer	4s	500 00
July 1, 1923,	Street	4s	3,500 00
July 1, 1923,	Street	3½s	2,500 00
July 1, 1923,	Street	4s	2,000 00
July 1, 1923,	Building	4s	4,000 00
July 1, 1923,	Sewer Sep. System	4s	500 00
July 1, 1923,	Playground	4s	1,500 00
July 1, 1923,	Park	4s	1,000 00
July 1, 1923,	School House	4½s	3,250 00
July 1, 1923,	Building	4½s	5,500 00
July 1, 1923,	Street	4½s	8,000 00
July 1, 1923,	Street	4s	4,800 00
July 1, 1923,	Street	4s	1,000 00
July 1, 1923,	Street	4s	3,500 00
July 1, 1923,	Bridge	4s	400 00
July 1, 1923,	Sewer	4s	1,000 00
July 1, 1923,	Park	4s	1,000 00
July 1, 1923,	Street	4s	500 00
Amount carried forward			\$374,600 00

Amount brought forward\$374,600 00

July	1, 1923,	Street	. . . .	4½s	2,000 00
Aug.	1, 1923,	Street	. . . .	4s	12,000 00
Sept.	1, 1923,	Street	. . . .	4s	6,000 00
Sept.	1, 1923,	Park	. . . .	3½s	2,000 00
Sept.	1, 1923,	Street	. . . .	4½s	800 00
Sept.	1, 1923,	Hospital	. . . .	4½s	3,000 00
Sept.	1, 1923,	Building	. . . .	4½s	1,000 00
Sept.	1, 1923,	Street	. . . .	4½s	2,000 00
Oct.	1, 1923,	Street	. . . .	4s	2,750 00
Oct.	1, 1923,	Street	. . . .	3½s	6,350 00
Oct.	1, 1923,	Street	. . . .	4s	500 00
Oct.	1, 1923,	Street	. . . .	4½s	500 00
Oct.	1, 1923,	Street	. . . .	4½s	2,000 00
Oct.	1, 1923,	Street	. . . .	4½s	10,000 00
Oct.	1, 1923,	Street	. . . .	4½s	1,000 00
Oct.	1, 1923,	Street	. . . .	4½s	10,000 00
Oct.	1, 1923,	Street	. . . .	4½s	2,500 00
Oct.	1, 1923,	Street	. . . .	4½s	20,000 00
Oct.	1, 1923,	Sewer Construction	. . . .	4½s	500 00
Oct.	1, 1923,	Sewer Construction	. . . .	4½s	1,500 00
Oct.	1, 1923,	School House	. . . .	4½s	1,000 00
Oct.	1, 1923,	Hospital	. . . .	4½s	8,000 00
Oct.	1, 1923,	Street	. . . .	5½s	14,000 00
Oct.	1, 1923,	Street	. . . .	5½s	4,000 00
Oct.	1, 1923,	Street	. . . .	5½s	3,000 00
Oct.	1, 1923,	Street	. . . .	5½s	4,000 00
Oct.	1, 1923,	Dept. Equipment	. . . .	5½s	10,000 00
Oct.	1, 1923,	School House	. . . .	5s	500 00
Oct.	1, 1923,	Street	. . . .	5s	1,500 00
Oct.	1, 1923,	Street	. . . .	5s	14,000 00
Oct.	1, 1923,	Sewer	. . . .	5s	1,000 00
Oct.	1, 1923,	Hospital	. . . .	5s	2,500 00
Oct.	1, 1923,	Sewer	. . . .	5s	1,000 00
Oct.	1, 1923,	Sewer	. . . .	5s	500 00
Oct.	1, 1923,	Street	. . . .	5½s	12,000 00
Oct.	1, 1923,	Street	. . . .	5½s	6,000 00
Oct.	1, 1923,	Add. Dept. Equipment	. . . .	5½s	11,000 00
Oct.	1, 1923,	School House	. . . .	5s	2,000 00
Oct.	1, 1923,	Street	. . . .	5s	24,000 00
Oct.	1, 1923,	Building	. . . .	4½s	3,000 00
Oct.	1, 1923,	Sewer Cons't	. . . .	4½s	2,000 00
Oct.	1, 1923,	Sewer Sep. System	. . . .	4½s	1,500 00
Nov.	1, 1923,	Sewer	. . . .	3½s	500 00
Nov.	1, 1923,	Street	. . . .	4s	5,000 00
Dec.	1, 1923,	Street	. . . .	4s	700 00
Dec.	1, 1923,	Municipal	. . . .	4s	1,000 00
Dec.	1, 1923,	Street	. . . .	4s	400 00
Dec.	1, 1923,	Sewer Sep. System	. . . .	4s	500 00
Dec.	1, 1923,	Dept. Equipment	. . . .	4½s	7,000 00
Dec.	1, 1923,	Street Construction	. . . .	4½s	20,000 00
Dec.	1, 1923,	Street Construction	. . . .	4½s	3,250 00
Dec.	1, 1923,	Sewer Construction	. . . .	4½s	1,000 00
Dec.	1, 1923,	Building	. . . .	4½s	3,000 00
Dec.	1, 1923,	Sewer Construction	. . . .	4½s	500 00
Dec.	1, 1923,	Playground	. . . .	4s	300 00

Amount carried forward\$630,650 00

Amount brought forward\$630,650 00

Jan.	1, 1924,	Sewer	. . . . .	4s	500 00
Jan.	1, 1924,	School House	. . . . .	4s	3,250 00
Feb.	1, 1924,	Street	. . . . .	4s	600 00
Feb.	1, 1924,	Sewer	. . . . .	4s	500 00
Mar.	1, 1924,	Hospital	. . . . .	4s	4,500 00
Mar.	1, 1924,	Building (Hospital	. . . . .	4s	2,000 00
Mar.	1, 1924,	Sewer	. . . . .	4s	500 00
Apr.	1, 1924,	Sewer Construction	. . . . .	4½s	500 00
May	1, 1924,	Sewer Sep. System	. . . . .	4s	1,000 00
May	1, 1924,	Sewer	. . . . .	3½s	500 00
May	1, 1924,	Cambridge Bridge	. . . . .	4s	2,000 00
July	1, 1924,	Street	. . . . .	4s	1,000 00
July	1, 1924,	Street	. . . . .	4s	3,500 00
July	1, 1924,	Street	. . . . .	3½s	2,500 00
July	1, 1924,	Street	. . . . .	4s	2,000 00
July	1, 1924,	Building	. . . . .	4s	4,000 00
July	1, 1924,	Sewer	. . . . .	4s	500 00
July	1, 1924,	Sewer Sep. System	. . . . .	4s	500 00
July	1, 1924,	Playground	. . . . .	4s	1,500 00
July	1, 1924,	Park	. . . . .	4s	1,000 00
July	1, 1924,	School House	. . . . .	4½s	3,250 00
July	1, 1924,	Street	. . . . .	4½s	2,000 00
July	1, 1924,	Street	. . . . .	4s	4,800 00
July	1, 1924,	Street	. . . . .	4s	3,500 00
July	1, 1924,	Bridge	. . . . .	4s	400 00
July	1, 1924,	Sewer Sep. System	. . . . .	4s	1,000 00
July	1, 1924,	Park	. . . . .	4s	1,000 00
July	1, 1924,	Street	. . . . .	4s	500 00
July	1, 1924,	School House	. . . . .	4½s	5,000 00
July	1, 1924,	Building	. . . . .	4½s	4,000 00
July	1, 1924,	Sewer	. . . . .	4½s	1,500 00
Aug.	1, 1924,	Street	. . . . .	4s	12,000 00
Sept.	1, 1924,	Street	. . . . .	4s	6,000 00
Sept.	1, 1924,	Park	. . . . .	3½s	2,000 00
Sept.	1, 1924,	Street	. . . . .	4½s	800 00
Sept.	1, 1924,	Hospital	. . . . .	4½s	3,000 00
Sept.	1, 1924,	Building	. . . . .	4½s	1,000 00
Sept.	1, 1924,	Street	. . . . .	4½s	2,000 00
Oct.	1, 1924,	Street	. . . . .	4s	2,750 00
Oct.	1, 1924,	Street	. . . . .	3½s	6,350 00
Oct.	1, 1924,	Street	. . . . .	4s	500 00
Oct.	1, 1924,	Street	. . . . .	4½s	500 00
Oct.	1, 1924,	Street	. . . . .	4½s	2,000 00
Oct.	1, 1924,	Street	. . . . .	4½s	10,000 00
Oct.	1, 1924,	Street	. . . . .	4½s	1,000 00
Oct.	1, 1924,	Street	. . . . .	4½s	10,000 00
Oct.	1, 1924,	Street	. . . . .	4½s	2,500 00
Oct.	1, 1924,	Street	. . . . .	4½s	20,000 00
Oct.	1, 1924,	Sewer Construction	. . . . .	4½s	500 00
Oct.	1, 1924,	Sewer Construction	. . . . .	4½s	1,500 00
Oct.	1, 1924,	School House	. . . . .	4½s	1,000 00
Oct.	1, 1924,	Hospital	. . . . .	4½s	8,000 00
Oct.	1, 1924,	Street	. . . . .	5½s	14,000 00
Oct.	1, 1924,	Street	. . . . .	5½s	4,000 00
Oct.	1, 1924,	Street	. . . . .	5½s	2,000 00

Amount carried forward\$803,350 00

Amount brought forward\$803,350 00

Oct.	1, 1924,	Street	. . . . .	5½s	4,000 00
Oct.	1, 1924,	Dept. Equipment	. . . . .	5½s	10,000 00
Oct.	1, 1924,	School House	. . . . .	5s	500 00
Oct.	1, 1924,	Street	.. . . .	5s	1,500 00
Oct.	1, 1924,	Street	. . . . .	5s	14,000 00
Oct.	1, 1924,	Sewer	. . . . .	5s	1,000 00
Oct.	1, 1924,	Hospital	. . . . .	5s	2,500 00
Oct.	1, 1924,	Sewer	. . . . .	5s	1,000 00
Oct.	1, 1924,	Sewer	. . . . .	5s	500 00
Oct.	1, 1924,	Street	. . . . .	5½s	11,000 00
Oct.	1, 1924,	Street	. . . . .	5½s	6,000 00
Oct.	1, 1924,	Add. Dept. Equipment	. . . . .	5½s	11,000 00
Oct.	1, 1924,	School House	. . . . .	5s	2,000 00
Oct.	1, 1924,	Street	. . . . .	5s	23,000 00
Oct.	1, 1924,	Building	. . . . .	4½s	3,000 00
Oct.	1, 1924,	Sewer Const't	. . . . .	4½s	2,000 00
Oct.	1, 1924,	Sewer Sep. System	. . . . .	4½s	1,500 00
Nov.	1, 1924,	Sewer	. . . . .	3½s	500 00
Nov.	1, 1924,	Street	. . . . .	4s	5,000 00
Dec.	1, 1924,	Street	. . . . .	4s	700 00
Dec.	1, 1924,	Street	. . . . .	4s	400 00
Dec.	1, 1924,	Sewer	. . . . .	4s	500 00
Dec.	1, 1924,	Street Construction	. . . . .	4½s	3,250 00
Dec.	1, 1924,	Building	. . . . .	4½s	3,000 00
Dec.	1, 1924,	Sewer Construction	. . . . .	4½s	1,000 00
Dec.	1, 1924,	Sewer Construction	. . . . .	4½s	500 00
Dec.	1, 1924,	Playground	. . . . .	4s	300 00
Jan.	1, 1925,	Sewer	. . . . .	4s	500 00
Jan.	1, 1925,	Street	. . . . .	4s	3,250 00
Feb.	1, 1925,	Street	. . . . .	4s	600 00
Feb.	1, 1925,	Building (School House)	. . . . .	4s	500 00
Mar.	1, 1925,	Hospital	. . . . .	4s	4,500 00
Mar.	1, 1925,	Building (Hospital)	. . . . .	4s	2,000 00
Mar.	1, 1925,	Sewer	. . . . .	4s	500 00
Apr.	1, 1925,	Sewer Construction	. . . . .	4½s	500 00
May	1, 1925,	Sewer Sep. System	. . . . .	4s	1,000 00
May	1, 1925,	Sewer	. . . . .	3½s	500 00
May	1, 1925,	Cambridge Bridge	. . . . .	4s	2,000 00
July	1, 1925,	Street	. . . . .	4s	1,000 00
July	1, 1925,	Street	. . . . .	4s	3,500 00
July	1, 1925,	Street	. . . . .	3½s	1,000 00
July	1, 1925,	Street	. . . . .	4s	2,000 00
July	1, 1925,	Building	. . . . .	4s	4,000 00
July	1, 1925,	Sewer	. . . . .	4s	500 00
July	1, 1925,	Sewer Sep. System	. . . . .	4s	500 00
July	1, 1925,	Playground	. . . . .	4s	1,500 00
July	1, 1925,	Park	. . . . .	4s	1,000 00
July	1, 1925,	School House	. . . . .	4½s	3,250 00
July	1, 1925,	Street	. . . . .	4½s	2,000 00
July	1, 1925,	Bridge	. . . . .	4s	400 00
July	1, 1925,	Sewer Sep. System	. . . . .	4s	1,000 00
July	1, 1925,	Park	. . . . .	4s	1,000 00
July	1, 1925,	School House	. . . . .	4½s	5,000 00
July	1, 1925,	Building	. . . . .	4½s	4,000 00
July	1, 1925,	Sewer	. . . . .	4½s	1,500 00
Sept.	1, 1925,	Building	. . . . .	4½s	1,000 00

Amount carried forward\$963,000 00

Amount brought forward						\$963.000 00
Sept. 1, 1925,	Street	.	.	.	4½s	2,000 00
Sept. 1, 1925,	Street	.	.	.	4s	6,000 00
Sept. 1, 1925,	Park	.	.	.	3½s	2,000 00
Sept. 1, 1925,	Hospital	.	.	.	4½s	3,000 00
Oct. 1, 1925,	Street	.	.	.	4s	2,750 00
Oct. 1, 1925,	Street	.	.	.	3½s	6,350 00
Oct. 1, 1925,	Street	.	.	.	4s	500 00
Oct. 1, 1925,	Street	.	.	.	4½s	10,000 00
Oct. 1, 1925,	Street	.	.	.	4½s	2,500 00
Oct. 1, 1925,	Street	.	.	.	4½s	20,000 00
Oct. 1, 1925,	Sewer Construction	.	.	.	4½s	500 00
Oct. 1, 1925,	Sewer Construction	.	.	.	4½s	1,500 00
Oct. 1, 1925,	School House	.	.	.	4½s	1,000 00
Oct. 1, 1925,	Hospital	.	.	.	4½s	8,000 00
Oct. 1, 1925,	Street	.	.	.	5½s	14,000 00
Oct. 1, 1925,	Street	.	.	.	5½s	4,000 00
Oct. 1, 1925,	Street	.	.	.	5½s	2,000 00
Oct. 1, 1925,	Street	.	.	.	5½s	4,000 00
Oct. 1, 1925,	Dept. Equipment	.	.	.	5½s	10,000 00
Oct. 1, 1925,	School House	.	.	.	5s	500 00
Oct. 1, 1925,	Street	.	.	.	5s	1,500 00
Oct. 1, 1925,	Street	.	.	.	5s	14,000 00
Oct. 1, 1925,	Sewer	.	.	.	5s	1,000 00
Oct. 1, 1925,	Hospital	.	.	.	5s	2,500 00
Oct. 1, 1925,	Sewer	.	.	.	5s	1,000 00
Oct. 1, 1925,	Sewer	.	.	.	5s	500 00
Oct. 1, 1925,	Street	.	.	.	5½s	11,000 00
Oct. 1, 1925,	Street	.	.	.	5½s	6,000 00
Oct. 1, 1925,	Add. Dept. Equipment	.	.	.	5½s	11,000 00
Oct. 1, 1925,	School House	.	.	.	5s	2,000 00
Oct. 1, 1925,	Street	.	.	.	5s	23,000 00
Oct. 1, 1925,	Building	.	.	.	4½s	3,000 00
Oct. 1, 1925,	Sewer Cons't	.	.	.	4½s	2,000 00
Oct. 1, 1925,	Sewer Sep. System	.	.	.	4½s	1,500 00
Nov. 1, 1925,	Sewer	.	.	.	3½s	500 00
Nov. 1, 1925,	Street	.	.	.	4s	5,000 00
Dec. 1, 1925,	Sewer Sep. System	.	.	.	4s	500 00
Dec. 1, 1925,	Street	.	.	.	4s	700 00
Dec. 1, 1925,	Street Construction	.	.	.	4½s	3,250 00
Dec. 1, 1925,	Building	.	.	.	4½s	3,000 00
Dec. 1, 1925,	Sewer Construction	.	.	.	4½s	1,000 00
Dec. 1, 1925,	Sewer Construction	.	.	.	4½s	500 00
Dec. 1, 1925,	Playground	.	.	.	4s	300 00
Jan. 1, 1926,	Sewer	.	.	.	4s	500 00
Jan. 1, 1926,	Street	.	.	.	4s	3,250 00
Feb. 1, 1926,	Street	.	.	.	4s	600 00
Feb. 1, 1926,	Building (School House)	.	.	.	4s	500 00
Mar. 1, 1926,	Hospital	.	.	.	4s	4,500 00
Mar. 1, 1926,	Building (Hospital)	.	.	.	4s	2,000 00
Mar. 1, 1926,	Sewer	.	.	.	4s	500 00
Apr. 1, 1926,	Sewer Construction	.	.	.	4½s	500 00
May 1, 1926,	Sewer Sep. System	.	.	.	4s	1,000 00
May 1, 1926,	Sewer	.	.	.	3½s	500 00
May 1, 1926,	Cambridge Bridge	.	.	.	4s	2,000 00
July 1, 1926,	Street	.	.	.	4s	3,500 00
July 1, 1926,	Street	.	.	.	3½s	1,000 00
Amount carried forward						\$1,178,700 00

Amount brought forward\$1,178,700 00

July	1, 1926,	Building	4s	4,000 00
July	1, 1926,	School House	4½s	5,000 00
July	1, 1926,	Building	4½s	4,000 00
July	1, 1926,	Sewer	4½s	1,500 00
July	1, 1926,	Sewer	4s	500 00
July	1, 1926,	Sewer Sep. System	4s	500 00
July	1, 1926,	Playground	4s	1,000 00
July	1, 1926,	Park	4s	1,000 00
July	1, 1926,	School House	4½s	3,250 00
July	1, 1926,	Street	4½s	2,000 00
July	1, 1926,	Bridge	4s	400 00
July	1, 1926,	Sewer Sep. System	4s	1,000 00
July	1, 1926,	Park	4s	1,000 00
Sept.	1, 1926,	Hospital	4½s	3,000 00
Sept.	1, 1926,	Park	3½s	2,000 00
Sept.	1, 1926,	Building	4½s	1,000 00
Sept.	1, 1926,	Street	4½s	2,000 00
Oct.	1, 1926,	Street	4s	2,750 00
Oct.	1, 1926,	Street	3½s	6,350 00
Oct.	1, 1926,	Street	4½s	10,000 00
Oct.	1, 1926,	Street	4½s	2,500 00
Oct.	1, 1926,	Street	4½s	20,000 00
Oct.	1, 1926,	Sewer Construction	4½s	500 00
Oct.	1, 1926,	Sewer Construction	4½s	1,500 00
Oct.	1, 1926,	School House	4½s	1,000 00
Oct.	1, 1926,	Hospital	4½s	8,000 00
Oct.	1, 1926,	School House	5s	500 00
Oct.	1, 1926,	Street	5s	1,500 00
Oct.	1, 1926,	Street	5s	14,000 00
Oct.	1, 1926,	Sewer	5s	1,000 00
Oct.	1, 1926,	Hospital	5s	2,500 00
Oct.	1, 1926,	Sewer	5s	1,000 00
Oct.	1, 1926,	Sewer	5s	500 00
Oct.	1, 1926,	Street	5½s	11,000 00
Oct.	1, 1926,	Street	5½s	6,000 00
Oct.	1, 1926,	Add. Dept. Equipment	5½s	11,000 00
Oct.	1, 1926,	School House	5s	2,000 00
Oct.	1, 1926,	Street	5s	23,000 00
Oct.	1, 1926,	Building	4½s	3,000 00
Oct.	1, 1926,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1926,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1926,	Sewer	3½s	500 00
Dec.	1, 1926,	Sewer Sep. System	4s	500 00
Dec.	1, 1926,	Street Construction	4½s	3,250 00
Dec.	1, 1926,	Building	4½s	3,000 00
Dec.	1, 1926,	Sewer Construction	4½s	1,000 00
Dec.	1, 1926,	Sewer Construction	4½s	500 00
Dec.	1, 1926,	Playground	4s	300 00
Jan,	1, 1927,	Sewer	4s	500 00
Jan,	1, 1927,	School House	4s	3,250 00
Feb.	1, 1927,	Building (School House)	4s	500 00
Mar.	1, 1927,	Hospital	4s	4,500 00
Mar.	1, 1927,	Building (Hospital)	4s	2,000 00
Apr.	1, 1927,	Sewer Construction	4½s	500 00
May	1, 1927,	Sewer	3½s	500 00
May	1, 1927,	Cambridge Bridge	4s	2,000 00
July	1, 1927,	Building	4s	4,000 00

Amount carried forward\$1,371,750 00

Amount brought forward\$1,371,750 00

July	1, 1927,	Sewer	4s	500 00
July	1, 1927,	Sewer Sep System	4s	500 00
July	1, 1927,	Playground	4s	1,000 00
July	1, 1927,	Park	4s	1,000 00
July	1, 1927,	School House	4½s	3,250 00
July	1, 1927,	Street	4½s	2,000 00
July	1, 1927,	Bridge	4s	400 00
July	1, 1927,	Sewer Sep. System	4s	1,000 00
July	1, 1927,	Park	4s	1,000 00
July	1, 1927,	School House	4½s	5,000 00
July	1, 1927,	Building	4½s	4,000 00
July	1, 1927,	Sewer	4½s	1,500 00
Sept.	1, 1927,	Building	4½s	1,000 00
Sept.	1, 1927,	Street	4½s	2,000 00
Sept.	1, 1927,	Park	3½s	2,000 00
Sept.	1, 1927,	Hospital	4½s	3,000 00
Oct.	1, 1927,	Street	4½s	10,000 00
Oct.	1, 1927,	Street	4½s	2,500 00
Oct.	1, 1927,	Street	4½s	20,000 00
Oct.	1, 1927,	Sewer Construction	4½s	500 00
Oct.	1, 1927,	Sewer Construction	4½s	1,500 00
Oct.	1, 1927,	School House	4½s	1,000 00
Oct.	1, 1927,	Hospital	4½s	8,000 00
Oct.	1, 1927,	School House	5s	500 00
Oct.	1, 1927,	Street	5s	1,500 00
Oct.	1, 1927,	Street	5s	14,000 00
Oct.	1, 1927,	Sewer	5s	1,000 00
Oct.	1, 1927,	Hospital	5s	2,500 00
Oct.	1, 1927,	Sewer	5s	1,000 00
Oct.	1, 1927,	Sewer	5s	500 00
Oct.	1, 1927,	School House	5s	2,000 00
Oct.	1, 1927,	Street	5s	23,000 00
Oct.	1, 1927,	Building	4½s	2,000 00
Oct.	1, 1927,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1927,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1927,	Sewer	3½s	500 00
Dec.	1, 1927,	Sewer Sep. System	4s	500 00
Dec.	1, 1927,	Street Construction	4½s	3,250 00
Dec.	1, 1927,	Building	4½s	3,000 00
Dec.	1, 1927,	Sewer Construction	4½s	1,000 00
Dec.	1, 1927,	Sewer Construction	4½s	500 00
Dec.	1, 1927,	Playground	4s	300 00
Jan.	1, 1928,	Sewer	4s	500 00
Jan.	1, 1928,	School House	4s	3,250 00
Feb.	1, 1928,	Building (School House)	4s	500 00
Mar.	1, 1928,	Hospital	4s	4,500 00
Mar.	1, 1928,	Building (Hospital)	4s	2,000 00
Apr.	1, 1928,	Sewer Construction	4½s	500 00
May	1, 1928,	Sewer	3½s	500 00
May	1, 1928,	Cambridge Bridge	4s	2,000 00
July	1, 1928,	Building	4s	4,000 00
July	1, 1928,	Sewer	4s	500 00
July	1, 1928,	Sewer Sep. System	4s	500 00
July	1, 1928,	Playground	4s	1,000 00
July	1, 1928,	Park	4s	1,000 00
July	1, 1928,	School House	4½s	3,250 00

Amount carried forward\$1,528,950 00

Amount brought forward\$1,528,950 00

July	1, 1928,	Street	4½s	2,000 00
July	1, 1928,	Bridge	4s	400 00
July	1, 1928,	Sewer Sep. System	4s	1,000 00
July	1, 1928,	Park	4s	1,000 00
July	1, 1928,	School House	4½s	5,000 00
July	1, 1928,	Building	4½s	4,000 00
July	1, 1928,	Sewer	4½s	1,000 00
Sept.	1, 1928,	Building	4½s	1,000 00
Sept.	1, 1928,	Park	3½s	2,000 00
Sept.	1, 1928,	Hospital	4½s	3,000 00
Oct.	1, 1928,	Street	4½s	10,000 00
Oct.	1, 1928,	Street	4½s	2,500 00
Oct.	1, 1928,	Street	4½s	10,000 00
Oct.	1, 1928,	Sewer Construction	4½s	500 00
Oct.	1, 1928,	Sewer Construction	4½s	1,500 00
Oct.	1, 1928,	School Hooose	4½s	1,000 00
Oct.	1, 1928,	Hospital	4½s	8,000 00
Oct.	1, 1928,	Street	5s	1,500 00
Oct.	1, 1928,	Street	5s	14,000 00
Oct.	1, 1928,	Sewer	5s	1,000 00
Oct.	1, 1928,	Hospital	5s	2,500 00
Oct.	1, 1928,	Sewer	5s	1,000 00
Oct.	1, 1928,	Sewer	5s	500 00
Oct.	1, 1928,	School House	5s	2,000 00
Oct.	1, 1928,	Street	5s	23,000 00
Oct.	1, 1928,	Building	4½s	2,000 00
Oct.	1, 1928,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1928,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1928,	Sewer	3½s	500 00
Dec.	1, 1928,	Sewer Sep. System	4s	500 00
Dec.	1, 1928,	Street Construction	4½s	3,250 00
Dec.	1, 1928,	Building	4½s	3,000 00
Dec.	1, 1928,	Sewer Construction	4½s	1,000 00
Dec.	1, 1928,	Sewer Construction	4½s	500 00
Dec.	1, 1928,	Playground	4s	300 00
Jan.	1, 1929,	Sewer	4s	500 00
Jan.	1, 1929,	School House	4s	3,250 00
Feb.	1, 1929,	Building (School House)	4s	500 00
Mar.	1, 1929,	Hospital	4s	4,500 00
Mar.	1, 1929,	Building (Hospital)	4s	2,000 00
Apr.	1, 1929,	Sewer Construction	4½s	500 00
May	1, 1929,	Sewer	3½s	500 00
May	1, 1929,	Cambridge Bridge	4s	2,000 00
July	1, 1929,	Building	4s	4,000 00
July	1, 1929,	Sewer	4s	500 00
July	1, 1929,	Sewer Sep. System	4s	500 00
July	1, 1929,	Playground	4s	1,000 00
July	1, 1929,	Park	4s	1,000 00
July	1, 1929,	School House	4½s	3,250 00
July	1, 1929,	Street	4½s	2,000 00
July	1, 1929,	Bridge	4s	400 00
July	1, 1929,	Sewer Sep. System	4s	1,000 00
July	1, 1929,	Park	4s	1,000 00
July	1, 1929,	School House	4½s	5,000 00
July	1, 1929,	Building	4½s	4,000 00
July	1, 1929,	Sewer	4½s	1,000 00

Amount carried forward\$1,681,300 00

Amount brought forward\$1,681,300 00

Sept. 1, 1929,	Building	. . . . .	4½s	1,000 00
Sept. 1, 1929,	Park	. . . . .	3½s	2,000 00
Sept. 1, 1929,	Hospital	. . . . .	4½s	3,000 00
Oct. 1, 1929,	Street	. . . . .	4½s	10,000 00
Oct. 1, 1929,	Street	. . . . .	4½s	2,500 00
Oct. 1, 1929,	Street	. . . . .	4½s	10,000 00
Oct. 1, 1929,	Sewer Construction	. . . . .	4½s	500 00
Oct. 1, 1929,	Sewer Construction	. . . . .	4½s	1,500 00
Oct. 1, 1929,	School House	. . . . .	4½s	1,000 00
Oct. 1, 1929,	Hospital	. . . . .	4½s	8,000 00
Oct. 1, 1929,	Street	. . . . .	5s	1,500 00
Oct. 1, 1929,	Street	. . . . .	5s	14,000 00
Oct. 1, 1929,	Sewer	. . . . .	5s	1,000 00
Oct. 1, 1929,	Hospital	. . . . .	5s	2,500 00
Oct. 1, 1929,	Sewer	. . . . .	5s	1,000 00
Oct. 1, 1929,	Sewer	. . . . .	5s	500 00
Oct. 1, 1929,	School House	. . . . .	5s	2,000 00
Oct. 1, 1929,	Street	. . . . .	5s	23,000 00
Oct. 1, 1929,	Building	. . . . .	4½s	2,000 00
Oct. 1, 1929,	Sewer Cons't	. . . . .	4½s	2,000 00
Oct. 1, 1929,	Sewer Sep. System	. . . . .	4½s	1,500 00
Nov. 1, 1929,	Sewer	. . . . .	3½s	500 00
Dec. 1, 1929,	Sewer Sep. System	. . . . .	4s	500 00
Dec. 1, 1929,	Sewer Construction	. . . . .	4½s	1,000 00
Dec. 1, 1929,	Sewer Construction	. . . . .	4½s	500 00
Dec. 1, 1929,	Playground	. . . . .	4s	300 00
Jan. 1, 1930,	Sewer	. . . . .	4s	500 00
Jan. 1, 1930,	School House	. . . . .	4s	3,250 00
Feb. 1, 1930,	Building (School House)	. . . . .	4s	500 00
Mar. 1, 1930,	Hospital	. . . . .	4s	4,500 00
Mar. 1, 1930,	Building (Hospital)	. . . . .	4s	2,000 00
Apr. 1, 1930,	Sewer Construction	. . . . .	4½s	500 00
May 1, 1930,	Sewer	. . . . .	3½s	500 00
May 1, 1930,	Cambridge Bridge	. . . . .	4s	2,000 00
July 1, 1930,	Building	. . . . .	4s	4,000 00
July 1, 1930,	Sewer	. . . . .	4s	500 00
July 1, 1930,	Sewer Sep. System	. . . . .	4s	500 00
July 1, 1930,	Playground	. . . . .	4s	1,000 00
July 1, 1930,	Park	. . . . .	4s	1,000 00
July 1, 1930,	School House	. . . . .	4½s	3,250 00
July 1, 1930,	Street	. . . . .	4½s	2,000 00
July 1, 1930,	Bridge	. . . . .	4s	400 00
July 1, 1930,	Sewer Sep. System	. . . . .	4s	1,000 00
July 1, 1930,	Park	. . . . .	4s	1,000 00
July 1, 1930,	Building	. . . . .	4½s	1,000 00
Sept. 1, 1930,	Building	. . . . .	4½s	1,000 00
Sept. 1, 1930,	Park	. . . . .	3½s	2,000 00
Sept. 1, 1930,	Hospital	. . . . .	4½s	3,000 00
Oct. 1, 1930,	Sewer Construction	. . . . .	4½s	500 00
Oct. 1, 1930,	Sewer Construction	. . . . .	4½s	1,500 00
Oct. 1, 1930,	School House	. . . . .	4½s	1,000 00
Oct. 1, 1930,	Hospital	. . . . .	4½s	8,000 00
Oct. 1, 1930,	Street	. . . . .	5s	1,500 00
Oct. 1, 1930,	Street	. . . . .	5s	14,000 00
Oct. 1, 1930,	Sewer	. . . . .	5s	1,000 00
Oct. 1, 1930,	Hospital	. . . . .	5s	2,500 00

Amount carried forward\$1,840,000 00

Amount brought forward\$1,840,000 00

Oct.	1, 1930,	Sewer	5s	1,000 00
Oct.	1, 1930,	Sewer	5s	500 00
Oct.	1, 1930,	School House	5s	2,000 00
Oct.	1, 1930,	Street	5s	23,000 00
Oct.	1, 1930,	Building	4½s	2,000 00
Oct.	1, 1930,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1930,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1930,	Sewer	3½s	500 00
Dec.	1, 1930,	Sewer Sep. System	4s	500 00
Dec.	1, 1930,	Sewer Construction	4½s	1,000 00
Dec.	1, 1930,	Sewer Construction	4½s	500 00
Dec.	1, 1930,	Playground	4s	300 00
Jan.	1, 1931,	Sewer	4s	500 00
Jan.	1, 1931,	School House	4s	3,250 00
Feb.	1, 1931,	Building (School House)	4s	500 00
Mar.	1, 1931,	Hospital	4s	4,500 00
Mar.	1, 1931,	Building (Hospital)	4s	2,000 00
Apr.	1, 1931,	Sewer Construction	4½s	500 00
May	1, 1931,	Sewer	3½s	500 00
May	1, 1931,	Cambridge Bridge	4s	2,000 00
July	1, 1931,	School House	4½s	5,000 00
July	1, 1931,	Building	4½s	4,000 00
July	1, 1931,	Sewer	4½s	1,000 00
July	1, 1931,	Building	4½s	4,000 00
July	1, 1931,	Sewer	4s	500 00
July	1, 1931,	Sewer Sep. System	4s	500 00
July	1, 1931,	Playground	4s	1,000 00
July	1, 1931,	Park	4s	1,000 00
July	1, 1931,	Street	4½s	2,000 00
July	1, 1931,	Bridge	4s	400 00
July	1, 1931,	Sewer Sep. System	4s	1,000 00
July	1, 1931,	Park	4s	1,000 00
Sept.	1, 1931,	Park	3½s	2,000 00
Sept.	1, 1931,	Building	4½s	1,000 00
Oct.	1, 1931,	Sewer Construction	4½s	500 00
Oct.	1, 1931,	Sewer Construction	4½s	1,500 00
Oct.	1, 1931,	School House	4½s	1,000 00
Oct.	1, 1931,	Hospital	4½s	8,000 00
Oct.	1, 1931,	Sewer	5s	1,000 00
Oct.	1, 1931,	Hospital	5s	2,500 00
Oct.	1, 1931,	Sewer	5s	1,000 00
Oct.	1, 1931,	Sewer	5s	500 00
Oct.	1, 1931,	Street	5s	23,000 00
Oct.	1, 1931,	Building	4½s	2,000 00
Oct.	1, 1931,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1931,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1931,	Sewer	3½s	500 00
Dec.	1, 1931,	Sewer Sep. System	4s	500 00
Dec.	1, 1931,	Sewer Construction	4½s	1,000 00
Dec.	1, 1931,	Sewer Construction	4½s	500 00
Dec.	1, 1931,	Playground	4s	300 00
Jan.	1, 1932,	Sewer	4s	500 00
Jan.	1, 1932,	School House	4s	3,250 00
Feb.	1, 1932,	Building (School House)	4s	500 00
Mar.	1, 1932,	Hospital	4s	4,500 00
Mar.	1, 1932,	Building (Hospital)	4s	2,000 00

Amount carried forward\$1,971,000 00

Amount brought forward\$1,971,000 00

Apr.	1, 1932,	Sewer Construction	. 4½s	500 00
May	1, 1932,	Sewer	. 3½s	500 00
May	1, 1932,	Cambridge Bridge	. 4s	2,000 00
July	1, 1932,	Building	. 4s	4,000 00
July	1, 1932,	Sewer	. 4s	500 00
July	1, 1932,	Sewer Sep. System	. 4s	500 00
July	1, 1932,	Playground	. 4s	1,000 00
July	1, 1932,	Park	. 4s	1,000 00
July	1, 1932,	School House	. 4½s	3,250 00
July	1, 1932,	Street	. 4½s	2,000 00
July	1, 1932,	Bridge	. 4s	400 00
July	1, 1932,	Sewer Sep. System	. 4s	1,000 00
July	1, 1932,	Park	. 4s	1,000 00
July	1, 1932,	School House	. 4½s	5,000 00
July	1, 1932,	Building	. 4½s	4,000 00
July	1, 1932,	Sewer	. 4½s	1,000 00
Sept.	1, 1932,	Building	. 4½s	1,000 00
Sept.	1, 1932,	Park	. 3½s	2,000 00
Sept.	1, 1932,	Hospital	. 4½s	3,000 00
Oct.	1, 1932,	Sewer Construction	. 4½s	500 00
Oct.	1, 1932,	Sewer Construction	. 4½s	1,500 00
Oct.	1, 1932,	School House	. 4½s	1,000 00
Oct.	1, 1932,	Hospital	. 4½s	8,000 00
Oct.	1, 1932,	Sewer	. 5s	1,000 00
Oct.	1, 1932,	Hospital	. 5s	2,500 00
Oct.	1, 1932,	Sewer	. 5s	1,000 00
Oct.	1, 1932,	Sewer	. 5s	500 00
Oct.	1, 1932,	Building	. 4½s	2,000 00
Oct.	1, 1932,	Sewer Cons't	. 4½s	2,000 00
Oct.	1, 1932,	Sewer Sep. System	. 4½s	1,500 00
Nov.	1, 1932,	Sewer	. 3½s	500 00
Dec.	1, 1932,	Sewer Sep. System	. 4s	500 00
Dec.	1, 1932,	Sewer Construction	. 4½s	1,000 00
Dec.	1, 1932,	Sewer Construction	. 4½s	500 00
Dec.	1, 1932,	Playground	. 4s	300 00
Jan.	1, 1933,	Sewer	. 4s	500 00
Jan.	1, 1933,	School House	. 4s	3,250 00
Feb.	1, 1933,	Building (School House)	4s	500 00
Mar.	1, 1933,	Hospital	. 4s	4,500 00
Mar.	1, 1933,	Building (Hospital)	. 4s	2,000 00
Apr.	1, 1933,	Sewer Construction	. 4½s	500 00
May	1, 1933,	Cambridge Bridge	. 4s	2,000 00
May	1, 1933,	Sewer	. 3½s	500 00
July	1, 1933,	Building	. 4s	4,000 00
July	1, 1933,	Sewer	. 4s	500 00
July	1, 1933,	Sewer Sep. System	. 4s	500 00
July	1, 1933,	Playground	. 4s	1,000 00
July	1, 1933,	Park	. 4s	1,000 00
July	1, 1933,	School House	. 4½s	3,250 00
July	1, 1933,	Street	. 4½s	2,000 00
July	1, 1933,	Bridge	. 4s	400 00
July	1, 1933,	Sewer Sep. System	. 4s	1,000 00
July	1, 1933,	Park	. 4s	1,000 00
July	1, 1933,	School House	. 4½s	5,000 00
July	1, 1933,	Building	. 4½s	4,000 00
July	1, 1933,	Sewer	. 4½s	1,000 00
Sept.	1, 1933,	Building	. 4½s	1,000 00

Amount carried forward.....\$2,068,350 00

Amount brought forward.....\$2,068,350 00

Sept.	1, 1933,	Park	3½s	1,000 00
Sept.	1, 1933,	Hospital	4½s	3,000 00
Oct.	1, 1933,	Sewer Construction	4½s	500 00
Oct.	1, 1933,	Sewer Construction	4½s	1,500 00
Oct.	1, 1933,	School House	4½s	1,000 00
Oct.	1, 1933,	Hospital	4½s	8,000 00
Oct.	1, 1933,	Sewer	5s	1,000 00
Oct.	1, 1933,	Hospital	5s	2,500 00
Oct.	1, 1933,	Sewer	5s	1,000 00
Oct.	1, 1933,	Sewer	5s	500 00
Oct.	1, 1933,	Building	4½s	2,000 00
Oct.	1, 1933,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1933,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1933,	Sewer	3½s	500 00
Dec.	1, 1933,	Sewer Sep. System	4s	500 00
Dec.	1, 1933,	Sewer Construction	4½s	1,000 00
Dec.	1, 1933,	Sewer Construction	4½s	500 00
Dec.	1, 1933,	Playground	4s	300 00
Jan.	1, 1934,	Sewer	4s	500 00
Jan.	1, 1934,	School House	4s	3,250 00
Feb.	1, 1934,	Building (School House)	4s	500 00
Mar.	1, 1934,	Hospital	4s	4,500 00
Mar.	1, 1934,	Building (Hospital)	4s	2,000 00
Apr.	1, 1934,	Sewer Construction	4½s	500 00
May	1, 1934,	Sewer	3½s	500 00
May	1, 1934,	Cambridge Bridge	4s	2,000 00
July	1, 1934,	Building	4s	4,000 00
July	1, 1934,	Sewer	4s	500 00
July	1, 1934,	Sewer Sep. System	4s	500 00
July	1, 1934,	Playground	4s	1,000 00
July	1, 1934,	Park	4s	1,000 00
July	1, 1934,	Street	4s	400 00
July	1, 1934,	Sewer Sep. System	4s	1,000 00
July	1, 1934,	Park	4s	1,000 00
July	1, 1934,	School House	4½s	5,000 00
July	1, 1934,	Building	4½s	4,000 00
July	1, 1934,	Sewer	4½s	1,000 00
Sept.	1, 1934,	Building	4½s	1,000 00
Sept.	1, 1934,	Park	3½s	1,000 00
Sept.	1, 1934,	Hospital	4½s	3,000 00
Oct.	1, 1934,	Sewer Construction	4½s	500 00
Oct.	1, 1934,	Sewer Construction	4½s	1,500 00
Oct.	1, 1934,	School House	4½s	1,000 00
Oct.	1, 1934,	Hospital	4½s	8,000 00
Oct.	1, 1934,	Sewer	5s	1,000 00
Oct.	1, 1934,	Hospital	5s	2,500 00
Oct.	1, 1934,	Sewer	5s	1,000 00
Oct.	1, 1934,	Sewer	5s	500 00
Oct.	1, 1934,	Building	4½s	2,000 00
Oct.	1, 1934,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1934,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1934,	Sewer	3½s	500 00
Dec.	1, 1934,	Sewer Sep. System	4s	500 00
Dec.	1, 1934,	Sewer Construction	4½s	1,000 00
Dec.	1, 1934,	Sewer Construction	4½s	500 00
Dec.	1, 1934,	Playground	4s	300 00

Amount carried forward\$2,159,100 00

Amount brought forward.....\$2,159,100 00

Jan.	1, 1935,	Sewer	4s	500 00
Jan.	1, 1935,	School House	4s	3,250 00
Feb.	1, 1935,	Building (School House)	4s	500 00
Mar.	1, 1935,	Hospital	4s	4,500 00
Mar.	1, 1935,	Building (Hospital)	4s	2,000 00
Apr.	1, 1935,	Sewer Construction	4½s	500 00
May	1, 1935,	Sewer	3½s	500 00
May	1, 1935,	Cambridge Bridge	4s	2,000 00
July	1, 1935,	Building	4s	4,000 00
July	1, 1935,	Sewer	4s	500 00
July	1, 1935,	Sewer Sep. System	4s	500 00
July	1, 1935,	Playground	4s	1,000 00
July	1, 1935,	Park	4s	1,000 00
July	1, 1935,	Sewer Sep. System	4s	1,000 00
July	1, 1935,	Park	4s	1,000 00
July	1, 1935,	School House	4½s	5,000 00
July	1, 1935,	Building	4½s	4,000 00
July	1, 1935,	Sewer	4½s	1,000 00
Sept.	1, 1935,	Building	4½s	1,000 00
Sept.	1, 1935,	Park	3½s	1,000 00
Oct.	1, 1935,	Sewer Construction	4½s	1,500 00
Oct.	1, 1935,	Hospital	4½s	8,000 00
Oct.	1, 1935,	Sewer	5s	1,000 00
Oct.	1, 1935,	Hospital	5s	2,500 00
Oct.	1, 1935,	Sewer	5s	1,000 00
Oct.	1, 1935,	Sewer	5s	500 00
Oct.	1, 1935,	Building	4½s	2,000 00
Oct.	1, 1935,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1935,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1935,	Sewer	3½s	500 00
Dec.	1, 1935,	Sewer Sep. System	4s	500 00
Dec.	1, 1935,	Sewer Construction	4½s	1,000 00
Dec.	1, 1935,	Sewer Construction	4½s	500 00
Dec.	1, 1935,	Playground	4s	300 00
Jan.	1, 1936,	Sewer	4s	500 00
Feb.	1, 1936,	Building (School House)	4s	500 00
Mar.	1, 1936,	Hospital	4s	4,500 00
Mar.	1, 1936,	Building (Hospital)	4s	2,000 00
Apr.	1, 1936,	Sewer Construction	4½s	500 00
May	1, 1936,	Sewer	3½s	500 00
May	1, 1936,	Cambridge Bridge	4s	2,000 00
July	1, 1936,	Sewer	4s	500 00
July	1, 1936,	Sewer Sep. System	4s	500 00
July	1, 1936,	Park	4s	1,000 00
July	1, 1936,	Sewer Sep. System	4s	1,000 00
July	1, 1936,	Park	4s	1,000 00
July	1, 1936,	School House	4½s	5,000 00
July	1, 1936,	Building	4½s	4,000 00
July	1, 1936,	Sewer	4½s	1,000 00
Sept.	1, 1936,	Building	4½s	1,000 00
Sept.	1, 1936,	Park	4s	1,000 00
Oct.	1, 1936,	Sewer Construction	4½s	1,500 00
Oct.	1, 1936,	Hospital	4½s	8,000 00
Oct.	1, 1936,	Sewer	5s	1,000 00
Oct.	1, 1936,	Hospital	5s	2,500 00
Oct.	1, 1936,	Sewer	5s	1,000 00

Amount carried forward.....\$2,257,150 00

Amount brought forward.....\$2,257,150 00

Oct.	1, 1936,	Sewer	5s	500 00
Oct.	1, 1936,	Building	4½s	2,000 00
Oct.	1, 1936,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1936,	Sewer Sep. System	4½s	1,500 00
Nov.	1, 1936,	Sewer	3½s	500 00
Dec.	1, 1936,	Sewer Sep. System	4s	500 00
Dec.	1, 1936,	Sewer Construction	4½s	1,000 00
Dec.	1, 1936,	Sewer Construction	4½s	500 00
Dec.	1, 1936,	Playground	4s	300 00
Jan.	1, 1937,	Sewer	4s	500 00
Apr.	1, 1937,	Sewer Construction	4½s	500 00
May	1, 1937,	Sewer	3½s	500 00
May	1, 1937,	Cambridge Bridge	4s	2,000 00
July	1, 1937,	Sewer	4s	500 00
July	1, 1937,	Sewer Sep. System	4s	500 00
July	1, 1937,	Park	4s	1,000 00
July	1, 1937,	Sewer Sep. System	4s	1,000 00
July	1, 1937,	Park	4s	1,000 00
July	1, 1937,	School House	4½s	5,000 00
July	1, 1937,	Building	4½s	4,000 00
July	1, 1937,	Sewer	4½s	1,000 00
July	1, 1937,	Building	4½s	1,000 00
Sept.	1, 1937,	Building	4½s	1,000 00
Sept.	1, 1937,	Park	3½s	1,000 00
Oct.	1, 1937,	Sewer Construction	4½s	1,500 00
Oct.	1, 1937,	Hospital	4½s	8,000 00
Oct.	1, 1937,	Sewer	5s	1,000 00
Oct.	1, 1937,	Hospital	5s	2,500 00
Oct.	1, 1937,	Sewer	5s	1,000 00
Oct.	1, 1937,	Sewer	5s	500 00
Oct.	1, 1937,	Building	4½s	2,000 00
Oct.	1, 1937,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1937,	Sewer Sep. System	4½s	1,500 00
Dec.	1, 1937,	Sewer Sep. System	4s	500 00
Dec.	1, 1937,	Sewer Construction	4½s	1,000 00
Dec.	1, 1937,	Sewer Construction	4½s	500 00
Jan.	1, 1938,	Sewer	4s	500 00
May	1, 1938,	Sewer	3½s	500 00
May	1, 1938,	Cambridge Bridge	4s	2,000 00
July	1, 1938,	Sewer	4s	500 00
July	1, 1938,	Sewer Sep. System	4s	500 00
July	1, 1938,	Park	4s	1,000 00
July	1, 1938,	Sewer Sep. System	4s	1,000 00
July	1, 1938,	Park	4s	1,000 00
Sept.	1, 1938,	Park	3½s	1,000 00
July	1, 1938,	Sewer	4½s	1,000 00
Oct.	1, 1938,	Sewer Construction	4½s	1,500 00
Oct.	1, 1938,	Hospital	4½s	3,000 00
Oct.	1, 1938,	Sewer	5s	1,000 00
Oct.	1, 1938,	Hospital	5s	2,500 00
Oct.	1, 1938,	Sewer	5s	1,000 00
Oct.	1, 1938,	Sewer	5s	500 00
Oct.	1, 1938,	Building	4½s	2,000 00
Oct.	1, 1938,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1938,	Sewer Sep. System	4½s	1,500 00
Dec.	1, 1938,	Sewer Sep. System	4s	500 00

Amount carried forward.....\$2,332,950 00

Amount brought forward.....					\$2,332,950 00
Dec.	1, 1938,	Sewer Construction .	4½s	1,000 00	
Dec.	1, 1938,	Sewer Construction .	4½s	500 00	
Jan.	1, 1939,	Sewer	4s	500 00	
May	1, 1939,	Sewer	3½s	500 00	
May	1, 1939,	Cambridge Bridge .	4s	2,000 00	
July	1, 1939,	Sewer	4s	500 00	
July	1, 1939,	Sewer Sep. System .	4s	500 00	
July	1, 1939,	Park	4s	1,000 0	
July	1, 1939,	Sewer Sep. System .	4s	1,000 00	
July	1, 1939,	Park	4s	1,000 00	
July	1, 1939,	Sewer	4½s	1,000 00	
Sept.	1, 1939,	Park	3½s	1,000 00	
Oct.	1, 1939,	Sewer Construction .	4½s	1,500 00	
Oct.	1, 1939,	Hospital	4½s	3,000 00	
Oct.	1, 1939,	Sewer	5s	1,000 00	
Oct.	1, 1939,	Hospital	5s	2,500 00	
Oct.	1, 1939,	Sewer	5s	1,000 00	
Oct.	1, 1939,	Sewer	5s	500 00	
Oct.	1, 1939,	Building	4½s	2,000 00	
Oct.	1, 1939,	Sewer Cons't	4½s	2,000 00	
Oct.	1, 1939,	Sewer Sep. System .	4½s	1,500 00	
Dec.	1, 1939,	Sewer Sep. System .	4s	500 00	
Dec.	1, 1939,	Sewer Construction .	4½s	500 00	
Jan.	1, 1940,	Sewer	4s	500 00	
May	1, 1940,	Sewer	3½s	500 00	
May	1, 1940,	Cambridge Bridge .	4s	2,000 00	
July	1, 1940,	Sewer	4s	500 00	
July	1, 1940,	Sewer Sep. System .	4s	500 00	
July	1, 1940,	Park	4s	1,000 0	
July	1, 1940,	Sewer Sep. System .	4s	1,000 00	
July	1, 1940,	Park	4s	1,000 00	
July	1, 1940,	Sewer	4½s	1,000 00	
Sept.	1, 1940,	Park	3½s	1,000 00	
Oct.	1, 1940,	Sewer Construction .	4½s	1,500 00	
Oct.	1, 1940,	Sewer	5s	1,000 00	
Oct.	1, 1940,	Hospital	5s	2,500 00	
Oct.	1, 1940,	Sewer	5s	1,000 00	
Oct.	1, 1940,	Sewer	5s	500 00	
Oct.	1, 1940,	Building	4½s	2,000 00	
Oct.	1, 1940,	Sewer Cons't	4½s	2,000 00	
Oct.	1, 1940,	Sewer Sep. System .	4½s	1,500 00	
Dec.	1, 1940,	Sewer Sep. System .	4s	500 00	
Dec.	1, 1940,	Sewer Construction .	4½s	500 00	
Jan.	1, 1941,	Sewer	4s	500 00	
May	1, 1941,	Sewer	3½s	500 00	
May	1, 1941,	Cambridge Bridge .	4s	2,000 00	
July	1, 1941,	Sewer	4s	500 00	
July	1, 1941,	Sewer Sep. System .	4s	500 00	
July	1, 1941,	Sewer Sep. System .	4s	1,000 00	
July	1, 1941,	Park	3½s	1,000 00	
July	1, 1941,	Sewer	4½s	1,000 00	
Sept.	1, 1941,	Park	4s	1,000 00	
Oct.	1, 1941,	Sewer Construction .	4½s	1,500 00	
Oct.	1, 1941,	Sewer	5s	1,000 00	
Oct.	1, 1941,	Sewer	5s	500 00	
Oct.	1, 1941,	Building	4½s	2,000 00	
Amount carried forward.....					\$2,394,450 00

Amount brought forward.....\$2,394,450 00

Oct.	1, 1941,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1941,	Sewer Sep. System	4½s	1,500 00
Dec.	1, 1941,	Sewer Sep. System	4s	500 00
Dec.	1, 1941,	Sewer Construction	4½s	500 00
Jan.	1, 1942,	Sewer	4s	500 00
May	1, 1942,	Sewer	3½s	500 00
May	1, 1942,	Cambridge Bridge	4s	2,000 00
July	1, 1942,	Sewer	4s	500 00
July	1, 1942,	Sewer Sep. System	4s	500 00
July	1, 1942,	Sewer Sep. System	4s	1,000 00
July	1, 1942,	Park	4s	1,000 00
July	1, 1942,	Sewer	4½s	1,500 00
Sept.	1, 1942,	Park	3½s	1,000 00
Oct.	1, 1942,	Sewer Construction	4½s	1,500 00
Oct.	1, 1942,	Sewer	5s	1,000 00
Oct.	1, 1942,	Sewer	5s	500 00
Oct.	1, 1942,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1942,	Sewer Sep. System	4½s	1,500 00
Dec.	1, 1942,	Sewer Sep. System	4s	500 00
Dec.	1, 1942,	Sewer Construction	4½s	500 00
Jan.	1, 1943,	Sewer	4s	500 00
May	1, 1943,	Sewer	3½s	500 00
May	1, 1943,	Cambridge Bridge	4s	2,000 00
July	1, 1943,	Sewer	4s	500 00
July	1, 1943,	Sewer Sep. System	4s	500 00
July	1, 1943,	Sewer Sep. System	4s	1,000 00
July	1, 1943,	Park	4s	1,000 00
Oct.	1, 1943,	Sewer Construction	4½s	1,000 00
Oct.	1, 1943,	Sewer	5s	1,000 00
Oct.	1, 1943,	Sewer	5s	500 00
Oct.	1, 1943,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1943,	Sewer Sep. System	4½s	1,500 00
July	1, 1943,	Sewer	4½s	1,500 00
Dec.	1, 1943,	Sewer Sep. System	4s	500 00
Dec.	1, 1943,	Sewer Construction	4½s	500 00
Jan.	1, 1944,	Sewer	4s	500 00
May	1, 1944,	Sewer	3½s	500 00
May	1, 1944,	Cambridge Bridge	4s	2,000 00
July	1, 1944,	Sewer	4s	500 00
July	1, 1944,	Sewer Sep. System	4s	500 00
July	1, 1944,	Sewer Sep. System	4s	1,000 00
July	1, 1944,	Park	4s	1,000 00
July	1, 1944,	Sewer	4½s	1,000 00
Oct.	1, 1944,	Sewer Construction	4½s	1,500 00
Oct.	1, 1944,	Sewer	5s	1,000 00
Oct.	1, 1944,	Sewer	5s	500 00
Oct.	1, 1944,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1944,	Sewer Sep. System	4½s	1,500 00
Dec.	1, 1944,	Sewer Sep. System	4s	500 00
Dec.	1, 1944,	Sewer Construction	4½s	500 00
Jan.	1, 1945,	Sewer	4s	500 00
May	1, 1945,	Sewer	3½s	500 00
May	1, 1945,	Cambridge Bridge	4s	2,000 00
July	1, 1945,	Sewer	4s	500 00
July	1, 1945,	Sewer Sep. System	4s	500 00
July	1, 1945,	Sewer	4½s	1,000 00

Amount carried forward.....\$2,448,950 00

Amount brought forward.....\$2,448,950 00

Oct.	1, 1945,	Sewer Construction . . .	4½s	1,500 00
Oct.	1, 1945,	Sewer	5s	1,000 00
Oct.	1, 1945,	Sewer	5s	500 00
Oct.	1, 1945,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1945,	Sewer Sep. System . . .	4½s	1,500 00
Dec.	1, 1945,	Sewer Construction . . .	4½s	500 00
Jan.	1, 1946,	Sewer	4s	500 00
May	1, 1946,	Sewer	3½s	500 00
July	1, 1946,	Sewer	4½s	1,000 00
Oct.	1, 1946,	Sewer Construction . . .	4½s	1,500 00
Oct.	1, 1946,	Sewer	5s	1,000 00
Oct.	1, 1946,	Sewer	5s	500 00
Oct.	1, 1946,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1946,	Sewer Sep. System . . .	4½s	1,500 00
Dec.	1, 1946,	Sewer Construction . . .	4½s	500 00
July	1, 1947,	Sewer	4½s	1,000 00
Oct.	1, 1947,	Sewer Construction . . .	4½s	1,500 00
Oct.	1, 1947,	Sewer	5s	1,000 00
Oct.	1, 1947,	Sewer	5s	500 00
Oct.	1, 1947,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1947,	Sewer Sep. System . . .	4½s	1,500 00
Dec.	1, 1947,	Sewer Construction . . .	4½s	500 00
Oct.	1, 1948,	Sewer Construction . . .	4½s	1,500 00
Oct.	1, 1948,	Sewer	5s	1,000 00
Oct.	1, 1948,	Sewer	5s	500 00
Oct.	1, 1948,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1948,	Sewer Sep. System . . .	4½s	1,500 00
Dec.	1, 1948,	Sewer Construction . . .	4½s	500 00
Oct.	1, 1949,	Sewer Construction . . .	4½s	1,500 00
Oct.	1, 1949,	Sewer	5s	1,000 00
Oct.	1, 1949,	Sewer	5s	500 00
Oct.	1, 1949,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1949,	Sewer Sep. System . . .	4½s	1,500 00
Oct.	1, 1950,	Sewer	5s	1,000 00
Oct.	1, 1950,	Sewer	5s	500 00
Oct.	1, 1950,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1950,	Sewer Sep. System . . .	4½s	1,500 00
Oct.	1, 1951,	Sewer Cons't	4½s	2,000 00
Oct.	1, 1951,	Sewer Sep. System . . .	4½s	1,500 00

\$2,494,950 00

The bonded City Debt matures as follows, viz:—

Provided for by Sinking Fund.

July	1, 1922,	Hospital	3½s	6,000 00
July	1, 1922,	School House	3½s	86,500 00
July	1, 1922,	Street	3½s	30,000 00
Sept.	1, 1922,	Municipal	4s	35,000 00
Sept.	1, 1922,	Street	4s	7,000 00
Sept.	1, 1922,	Street	4s	118,000 00
Oct.	1, 1922,	School House	3½s	11,000 00
Nov.	1, 1922,	Street	3½s	14,000 00
Feb.	1, 1923,	Municipal	4s	4,800 00
Feb.	1, 1923,	Municipal	4s	35,000 00
Feb.	1, 1923,	Street	4s	10,000 00
Feb.	1, 1923,	Street	4s	3,000 00
Apr.	1, 1923,	Street	3½s	4,000 00
Apr.	1, 1923,	Building	3½s	3,000 00
July	1, 1923,	Street	4s	57,800 00
July	1, 1923,	Municipal	4s	25,000 00
Aug.	1, 1923,	Harvard Bridge	4s	10,000 00
Oct.	1, 1923,	School House	3½s	80,000 00
Nov.	1, 1923,	Street	3½s	12,000 00
Feb.	1, 1924,	Park	4s	360,000 00
Apr.	1, 1924,	Building	3½s	25,000 00
Apr.	1, 1924,	School House	3½s	80,000 00
May	1, 1924,	School House	3½s	5,000 00
Aug.	1, 1924,	Sewer	4s	75,000 00
Sept.	1, 1924,	Street	3½s	59,000 00
Nov.	1, 1924,	Building	3½s	6,000 00
Nov.	1, 1924,	School House	3½s	20,000 00
Nov.	1, 1924,	Street	3½s	6,500 00
May	1, 1925,	Street	3½s	84,000 00
May	1, 1925,	School House	3½s	20,950 00
Aug.	1, 1925,	School House	3½s	20,000 00
Oct.	1, 1925,	Sewer	4s	60,000 00
Nov.	1, 1925,	Street	3½s	1,500 00
May	1, 1926,	Street	4s	100,000 00
Aug.	1, 1926,	Park	4s	100,000 00
Aug.	1, 1926,	School House	4s	47,000 00
Aug.	1, 1926,	Street	4s	22,000 00
Oct.	1, 1926,	Park	4s	40,000 00
Apr.	1, 1927,	Street	4s	40,000 00
June	1, 1927,	Street	4s	19,000 00
Sept.	1, 1927,	Street	4s	25,000 00
Sept.	1, 1927,	Building	4s	30,000 00
Nov.	1, 1927,	Street	4s	10,000 00
Jan.	1, 1928,	Street	4s	34,000 00
Aug.	1, 1928,	Street	4s	42,000 00
Aug.	1, 1928,	Hospital	4s	20,000 00
Dec.	1, 1928,	School House	3½s	40,000 00

Amount carried forward.....\$1,944,050 00

Amount brought forward.....						\$1,944,050 00
Mar.	1, 1929,	Street	3½s	20,000	00	
Nov.	1, 1929,	Sewer	3½s	42,000	00	
Jan.	1, 1930,	Street	3½s	13,500	00	
Jan.	1, 1930,	School House	3½s	93,500	00	
July	1, 1930,	Sewer	3½s	100,000	00	
July	1, 1930,	School House	4s	120,000	00	
July	1, 1930,	Cambridge Hospital	4s	95,000	00	
July	1, 1930,	Street	4s	12,000	00	
Mar.	1. 1931,	Street	3½s	27,000	00	
Mar.	1. 1931,	School House	3½s	5,000	00	
July	1, 1931,	Street	3½s	8,000	00	
July	1, 1931,	Street	3½s	45,000	00	
July	1, 1931,	School House	4½s	3,250	00	
Aug.	1, 1931,	Sewer	3½s	110,000	00	
Sept.	1, 1931,	Hospital	4½s	3,000	00	
Dec.	1, 1931,	Hospital	3½s	4,000	00	
Feb.	1, 1932,	Street	3½s	6,250	00	
Feb.	1, 1932,	School	3½s	5,000	00	
Mar.	1, 1932,	Hospital	3½s	25,000	00	
Mar.	1, 1932,	School House	3½s	2,500	00	
Aug.	1, 1932,	Metropolitan Park As.	3½s	46,000	00	
Sept.	1, 1932,	Street	3½s	6,200	00	
Nov.	1, 1932,	Sewer	3½s	20,000	00	
Apr.	1, 1933,	Sewer	3½s	40,000	00	
July	1, 1933,	Street	4s	4,000	00	
Aug.	1, 1933,	Street	4s	18,000	00	
Oct.	1, 1933,	Sewer	3½s	20,000	00	
May	1, 1934,	Sewer	3½s	112,000	00	
May	1, 1934,	Camb. Bridge Special	3½s	28,000	00	
Nov.	1, 1934,	Sewer	3½s	5,000	00	
May	1, 1935,	Sewer	3½s	90,000	00	
Aug.	1, 1935,	Park	4s	100,000	00	
Feb.	1, 1936,	Park	4s	100,000	00	
May	1, 1936,	Sewer	4s	35,000	00	
Sept.	1, 1936,	Sewer	4s	25,000	00	
Apr.	1, 1937,	Sewer	4s	60,000	00	
Sept.	1, 1937,	Park	3½s	100,000	00	
Nov.	1, 1937,	Sewer	4s	10,000	00	
Nov.	1, 1937,	Charles River Impr'ment	3½s	50,000	00	
June	1, 1938,	Park	3½s	50,000	00	
Aug.	1, 1938,	Park	3½s	50,000	00	
Aug.	1, 1938,	Charles River Impr'ment	3½s	50,000	00	
Aug.	1, 1938,	Sewer	4s	25,000	00	
Dec.	1, 1938,	Sewer	4s	17,000	00	
July	1, 1939,	Cambridge Bridge	3½s	50,000	00	
July	1, 1939,	Sewer	3½s	2,000	00	
Aug.	1, 1939,	Park	3½s	100,000	00	
Amount carried forward.....						\$3,897,250 00

Amount brought forward						\$3,897,250 00
Jan.	1, 1940,	Sewer	3½s	46,000	00	
May	1, 1940,	Sewer	4s	15,000	00	
July	1, 1940,	Cambridge Bridge . . .	3½s	100,000	00	
July	1, 1940,	Park	3½s	50,000	00	
July	1, 1940,	Sewer	4s	25,000	00	
July	1, 1940,	Playground	4s	50,000	00	
Nov.	1, 1940,	Park	3½s	50,000	00	
Feb.	1, 1941,	Cambridge Bridge . . .	3s	100,000	00	
Mar.	1, 1941,	Sewer	3½s	10,000	00	
July	1, 1941,	Playground	3½s	15,000	00	
July	1, 1941,	Sewer	3½s	10,000	00	
July	1, 1941,	Sewer	3½s	10,000	00	
Oct.	1, 1941,	Park	3½s	100,000	00	
Nov.	1, 1941,	Cambridge Bridge . . .	3½s	100,000	00	
Dec.	1, 1941,	Sewer Sep. System . . .	3½s	10,000	00	
Dec.	1, 1941,	Playground	3½s	30,000	00	
July	1, 1942,	Park	3½s	48,000	00	
Aug.	1, 1942,	Cambridge Bridge . . .	3½s	100,000	00	
Sept.	1, 1942,	Sewer	3½s	15,000	00	
Jan.	1, 1943,	Cambridge Bridge . . .	3½s	50,000	00	
Feb.	1, 1943,	Sewer	3½s	10,000	00	
Feb.	1, 1943,	Separate System	3½s	10,000	00	
Apr.	1, 1943,	Cambridge Bridge . . .	3½s	50,000	00	
Apr.	1, 1943,	Park	3½s	50,000	00	
July	1, 1943,	Sewer	4s	25,000	00	
Aug.	1, 1943,	Cambridge Bridge . . .	3½s	50,000	00	
Jan.	1, 1944,	Cambridge Bridge . . .	3½s	100,000	00	
May	1, 1944,	Cambridge Bridge . . .	3½s	200,000	00	
Aug.	1, 1944,	Cambridge Bridge . . .	3½s	100,000	00	
Sept.	1, 1944,	Cambridge Bridge . . .	3½s	50,000	00	
Sept.	1, 1944,	Park	3½s	25,000	00	
Nov.	1, 1944,	Park	3½s	6,000	00	
Apr.	1, 1945,	Park	3½s	5,000	00	
May	1, 1945,	Park	3½s	45,000	00	
May	1, 1945,	Cambridge Bridge . . .	3½s	150,000	00	
Aug.	1, 1945,	Park	3½s	5,000	00	
Dec.	1, 1945,	Cambridge Bridge . . .	3½s	100,000	00	
Jan.	1, 1946,	Cambridge Bridge . . .	3½s	20,000	00	
Aug.	1, 1946,	Cambridge Bridge . . .	4s	150,000	00	
Aug.	1, 1946,	Commercial Ave. Bridge	3½s	50,000	00	
Sept.	1, 1946,	Park	3½s	25,000	00	
Sept.	1, 1946,	Cambridge Bridge . . .	4s	5,000	00	
Jan.	1, 1947,	Cambridge Bridge . . .	3½s	50,000	00	
July	1, 1947,	Cambridge Bridge . . .	4s	40,000	00	
Oct.	1, 1947,	Cambridge Bridge . . .	4s	15,000	00	
Oct.	1, 1947,	Park	4s	10,000	00	

Amount carried forward\$6,177,250 00

The bonded Water Debt matures as follows:—
 Provided for by Sinking Fund.

July	1, 1922	.	.	.	3½	.	.	13,500 00
Nov.	1, 1922	.	.	.	3½	.	.	5,000 00
Apr.	1, 1924	.	.	.	4	.	.	300,000 00
May	1, 1925	.	.	.	3½	.	.	46,000 00
June	1, 1928	.	.	.	4	.	.	20,000 00
Jan.	1, 1930	.	.	.	4	.	.	5,000 00
Feb.	1, 1930	.	.	.	3½	.	.	5,000 00
May	1, 1936	.	.	.	4	.	.	280,000 00
June	1, 1937	.	.	.	4	.	.	49,000 00
July	1, 1937	.	.	.	4	.	.	25,000 00
Aug.	1, 1938	.	.	.	4	.	.	17,000 00
May	1, 1941	.	.	.	3½	.	.	16,500 00
Dec.	1, 1941	.	.	.	3½	.	.	10,000 00
Total.....								<u> </u> \$792,000 00

The bonded Water Debt matures as follows:—

Issued serially, provided for in the annual tax levy.

Feb.	1, 1923	.	.	.	4	.	.	1,500 00
May	1, 1922	.	.	.	3½	.	.	12,500 00
July	1, 1922	.	.	.	4	.	.	2,000 00
July	1, 1922	.	.	.	4	.	.	1,500 00
Sept.	1, 1922	.	.	.	3½	.	.	1,000 00
Oct.	1, 1922	.	.	.	4½	.	.	11,000 00
Nov.	1, 1922	.	.	.	4	.	.	500 00
Dec.	1, 1922	.	.	.	3½	.	.	1,000 00
Mar.	1, 1923	.	.	.	4	.	.	500 00
May	1, 1923	.	.	.	3½	.	.	12,500 00
July	1, 1923	.	.	.	4	.	.	2,000 00
July	1, 1923	.	.	.	4	.	.	1,500 00
Sept.	1, 1923	.	.	.	3½	.	.	1,000 00
Oct.	1, 1923	.	.	.	4½	.	.	11,000 00
Nov.	1, 1923	.	.	.	4	.	.	2,000 00
Dec.	1, 1923	.	.	.	3½	.	.	1,000 00
Feb.	1, 1924	.	.	.	4	.	.	1,500 00
Mar.	1, 1924	.	.	.	4	.	.	500 00
May	1, 1924	.	.	.	3½	.	.	12,500 00
July	1, 1924	.	.	.	4	.	.	2,000 00
July	1, 1924	.	.	.	4	.	.	1,500 00
Sept.	1, 1924	.	.	.	4	.	.	1,000 00
Oct.	1, 1924	.	.	.	4½	.	.	11,000 00
Nov.	1, 1924	.	.	.	4	.	.	500 00
Dec.	1, 1924	.	.	.	3½	.	.	1,000 00
Feb.	1, 1925	.	.	.	4	.	.	1,500 00
Mar.	1, 1925	.	.	.	4	.	.	500 00
May	1, 1925	.	.	.	3½	.	.	12,500 00
July	1, 1925	.	.	.	4	.	.	2,000 00
July	1, 1925	.	.	.	4	.	.	1,500 00
Sept.	1, 1925	.	.	.	3½	.	.	1,000 00
Oct.	1, 1925	.	.	.	4½	.	.	11,000 00
Nov.	1, 1925	.	.	.	4	.	.	500 00
Dec.	1, 1925	.	.	.	3½	.	.	1,000 00
Feb.	1, 1926	.	.	.	4	.	.	1,500 00
Mar.	1, 1926	.	.	.	4	.	.	500 00
July	1, 1926	.	.	.	4	.	.	2,000 00
July	1, 1926	.	.	.	4	.	.	1,500 00
Sept.	1, 1926	.	.	.	3½	.	.	1,000 00
Oct.	1, 1926	.	.	.	4½	.	.	11,000 00
Nov.	1, 1926	.	.	.	4	.	.	500 00
Dec.	1, 1926	.	.	.	3½	.	.	1,000 00
Feb.	1, 1927	.	.	.	4½	.	.	1,500 00
Mar.	1, 1927	.	.	.	4	.	.	500 00
July	1, 1927	.	.	.	4	.	.	2,000 00
July	1, 1927	.	.	.	4	.	.	1,500 00
Sept.	1, 1927	.	.	.	4	.	.	1,000 00
Oct.	1, 1927	.	.	.	4½	.	.	11,000 00
Nov.	1, 1927	.	.	.	4	.	.	500 00

Amount carried forward\$162,500 00

CITY TREASURER

193

Amount brought forward\$162,500 00

Dec.	1, 1927	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Feb.	1, 1928	.	.	.	4	.	.	1,500 00
Mar.	1, 1928	.	.	.	4	.	.	500 00

July	1, 1928	.	.	.	4	.	.	2,000 00
July	1, 1928	.	.	.	4	.	.	1,500 00
Sept.	1, 1928	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1928	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Nov.	1, 1928	.	.	.	$3\frac{1}{2}$	.	.	500 00

Dec.	1, 1928	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Feb.	1, 1929	.	.	.	4	.	.	1,500 00
Mar.	1, 1929	.	.	.	4	.	.	500 00

July	1, 1929	.	.	.	4	.	.	2,000 00
July	1, 1929	.	.	.	4	.	.	1,500 00
Sept.	1, 1929	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1929	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Nov.	1, 1929	.	.	.	4	.	.	500 00
Dec.	1, 1929	.	.	.	4	.	.	1,000 00
Feb.	1, 1930	.	.	.	4	.	.	1,500 00
Mar.	1, 1930	.	.	.	4	.	.	500 00

July	1, 1930	.	.	.	4	.	.	2,000 00
July	1, 1930	.	.	.	4	.	.	1,500 00
Sept.	1, 1930	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1930	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Nov.	1, 1930	.	.	.	4	.	.	500 00
Dec.	1, 1930	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Feb.	1, 1931	.	.	.	4	.	.	500 00
Mar.	1, 1931	.	.	.	4	.	.	500 00

July	1, 1931	.	.	.	4	.	.	2,000 00
July	1, 1931	.	.	.	4	.	.	1,500 00
Sept.	1, 1931	.	.	.	3	.	.	1,000 00
Oct.	1, 1931	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Nov.	1, 1931	.	.	.	4	.	.	500 00
Dec.	1, 1931	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Feb.	1, 1932	.	.	.	4	.	.	500 00
Mar.	1, 1932	.	.	.	4	.	.	500 00

July	1, 1932	.	.	.	4	.	.	2,000 00
July	1, 1932	.	.	.	4	.	.	1,500 00
Sept.	1, 1932	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1932	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Nov.	1, 1932	.	.	.	4	.	.	500 00
Dec.	1, 1932	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Feb.	1, 1933	.	.	.	4	.	.	500 00
Mar.	1, 1933	.	.	.	4	.	.	500 00

July	1, 1933	.	.	.	4	.	.	2,000 00
July	1, 1933	.	.	.	4	.	.	1,500 00
Sept.	1, 1933	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1933	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Nov.	1, 1933	.	.	.	4	.	.	500 00
Dec.	1, 1933	.	.	.	$3\frac{1}{2}$	.	.	1,000 00

Amount brought forward\$274,500 00

Amount carried forward\$274,500 00

July	1, 1934	.	.	.	4	.	.	1,500 00
Sept.	1, 1934	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1934	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Dec.	1, 1934	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
July	1, 1935	.	.	.	4	.	.	1,500 00
Sept.	1, 1935	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1935	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Dec.	1, 1935	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
July	1, 1936	.	.	.	4	.	.	1,500 00
Sept.	1, 1936	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1936	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
July	1, 1937	.	.	.	4	.	.	1,500 00
Sept.	1, 1937	.	.	.	$3\frac{1}{2}$	.	.	1,000 00
Oct.	1, 1937	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
July	1, 1938	.	.	.	4	.	.	1,500 00
Oct.	1, 1938	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
July	1, 1939	.	.	.	4	.	.	1,500 00
Oct.	1, 1939	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
July	1, 1940	.	.	.	4	.	.	1,500 00
Oct.	1, 1940	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
July	1, 1941	.	.	.	4	.	.	1,500 00
Oct.	1, 1941	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
July	1, 1942	.	.	.	4	.	.	1,500 00
Oct.	1, 1942	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
July	1, 1943	.	.	.	4	.	.	1,500 00
Oct.	1, 1943	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
July	1, 1944	.	.	.	4	.	.	1,500 00
Oct.	1, 1944	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Oct.	1, 1945	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Oct.	1, 1946	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Oct.	1, 1947	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Oct.	1, 1948	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Oct.	1, 1949	.	.	.	$4\frac{1}{2}$	.	.	11,000 00
Oct.	1, 1950	.	.	.	$4\frac{1}{2}$	.	.	11,000 00

\$484,000 00

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS OF THE CITY OF CAMBRIDGE

To the Honorable, the City Council:

The Commissioners of the several sinking funds of the City herewith submit their annual report, covering the year ending March 31, 1922. Our report shows the condition of the sinking funds under two divisions; first, Municipal; second, Water.

The following is the condition of the Municipal Loan Funds:

Dr.	
The amount of the funds March 31, 1921	\$3,610,536 69
Received from the City of Cambridge, the annual bond re- quirements as appropriated for the several loans.....	157,872 50
Received interest on invested funds	145,339 66
Received discount on bonds purchased	4,868 00
	\$3,918,616 85

Cr.	
Paid to City Treasurer on account of Municipal debt maturing	\$397,500 00
Paid interest accrued on bonds purchased	1,813 84
Paid interest on \$100,000 00 advanced by City	2,575 00
Paid discount on bonds sold	2,400 00
Amount of the funds March 31, 1922	3,514,328 01
	\$3,918,616 85

The following is the condition of the Water Loan Fund:

Dr.	
The amount of the funds March 31, 1921	\$652,723 59
Received interest on invested funds	25,699 36
Received discount on bonds purchased	571 60
	\$678,994 55

Cr.	
Paid to City Treasurer on account of Water Debt maturing.....	\$30,000 00
Paid interest accrued on bonds purchased	166 00
Amount of fund March 31, 1922	648,828 55
	\$678,994 55

April 1, 1922.

The following are the investments belonging to the Municipal Loan Fund:

Cambridge City Bonds.....	July	1922	3½	91,000 00
" " "	Sept.	1922	4½	800 00
" " "	Oct.	1922	3½	6,000 00
" " "	Nov.	1922	3½	3,000 00
" " "	Dec.	1922	4½	33,250 00
" " "	Mar.	1923	4	300 00
" " "	Apr.	1923	3½	7,000 00
" " "	Sept.	1923	4½	800 00
" " "	Oct.	1923	3½	25,000 00
" " "	Nov.	1923	3½	12,000 00
" " "	Dec.	1923	4½	33,250 00
" " "	Feb.	1924	4	22,000 00
" " "	Mar.	1924	4	300 00
" " "	Apr.	1924	4	212,000 00
" " "	Apr.	1924	3½	54,000 00
" " "	Sept.	1924	3½	20,000 00
" " "	Sept.	1924	4½	800 00
" " "	Nov.	1924	3½	31,500 00
" " "	Dec.	1924	4½	6,250 00
" " "	Mar.	1925	4	300 00
" " "	May	1925	3½	52,500 00
" " "	Aug.	1925	3½	20,000 00
" " "	Oct.	1925	4	7,500 00
" " "	Nov.	1925	3½	1,500 00
" " "	Dec.	1925	4½	6,250 00
" " "	Mar.	1926	4	300 00
" " "	May	1926	4	10,000 00
" " "	Oct.	1926	4	40,000 00
" " "	Nov.	1926	4	6,000 00
" " "	Dec.	1926	4½	6,250 00
" " "	Mar.	1927	4	300 00
" " "	Sept.	1927	4	5,000 00
" " "	Nov.	1927	4	10,000 00
" " "	Dec.	1927	4½	6,250 00
" " "	Mar.	1928	4	300 00
" " "	Dec.	1928	4½	6,250 00
" " "	Mar.	1929	4	300 00
" " "	Nov.	1929	3½	42,000 00
" " "	Mar.	1930	4	300 00
" " "	Mar.	1931	4	300 00
" " "	Aug.	1931	3½	55,000 00
" " "	Mar.	1932	4	300 00
" " "	Mar.	1933	4	300 00
" " "	Apr.	1933	3½	30,000 00
" " "	Mar.	1934	4	300 00
" " "	May	1934	3½	1,000 00
" " "	Mar.	1935	4	300 00
" " "	Mar.	1936	4	300 00
" " "	Nov.	1937	4	10,000 00
" " "	Oct.	1941	3½	25,000 00
Quincy City Bonds	Apr.	1922	3½	2,800 00
Gardner City Bonds	June	1922	4	1,250 00
Reading City Bonds	June	1922	4	5,000 00
Boston City Bonds	June	1922	3½	53,000 00
Barre, Vt., City Bonds.....	July	1922	3½	24,000 00

Gardner City Bonds	July	1922	4	2,500 00
Troy, N. Y., City Bonds	Sept.	1922	4	15,000 00
Ipswich Town Bonds	Oct.	1922	4	1,000 00
Weymouth Town Bonds	Nov.	1922	4	5,000 00
Cleveland, O., City Bonds	Feb.	1923	4½	13,000 00
New Bedford City Bonds	Feb.	1923	3½	3,000 00
Minneapolis, Minn., City Bonds	Mar.	1923	4½	10,000 00
Revere City Bonds	Apr.	1923	3½	12,000 00
Providence, R. I., City Bonds	Apr.	1923	4	10,000 00
Quincy City Bonds	Apr.	1923	3½	2,800 00
Fitchburg City Bonds	May	1923	4	6,000 00
Watertown Town Bonds	May	1923	4	3,000 00
Gardner City Bonds	June	1923	4	1,250 00
Boston City Bonds	June	1923	3½	66,000 00
Reading Town Bonds	June	1923	4	5,000 00
Portland, Ore., City Bonds	July	1923	5	7,000 00
Gardner City Bonds	July	1923	4	2,500 00
Medford City Bonds	July	1923	4	2,000 00
Lawrence City Bonds	July	1923	4	2,000 00
Medford City Bonds	Aug.	1923	4	6,000 00
Jersey City, N. J., City Bonds	Sept.	1923	5	50,000 00
Ipswich Town Bonds	Oct.	1923	4	1,000 00
Wakefield Town Bonds	Nov.	1923	3½	4,000 00
Weymouth Town Bonds	Nov.	1923	4	5,000 00
Brookline Town Bonds	Jan.	1924	3½	2,000 00
Cleveland, O., City Bonds	Feb.	1924	4½	13,000 00
Old Colony R. R. Co. Railroad Bonds.....	Feb.	1924	4	7,000 00
Minneapolis, Minn., City Bonds	Mar.	1924	4½	10,000 00
Revere City Bonds	Apr.	1924	3½	12,000 00
Quincy City Bonds	Apr.	1924	3½	2,800 00
Watertown Town Bonds	May	1924	4	3,000 00
Greenwich, Conn., City Bonds	May	1924	4½	2,000 00
Malden City Bonds	May	1924	4	9,000 00
Gardner City Bonds	July	1924	4	2,500 00
Fall River City Bonds	July	1924	3½	10,000 00
Akron, O., City Bonds	Sept.	1924	5	30,000 00
Akron, O., City Bonds	Sept.	1924	5½	50,000 00
Marlboro City Bonds	Sept.	1924	4	10,000 00
Ipswich Town Bonds	Oct.	1924	4	1,000 00
Wakefield Town Bonds	Nov.	1924	3½	4,000 00
Weymouth Town Bonds	Nov.	1924	4	5,000 00
Norwich, Conn., City Bonds	Jan.	1925	3½	26,000 00
Cleveland, O., City Bonds	Feb.	1925	4½	13,000 00
Toledo, O., City Bonds	Feb.	1925	4½	40,000 00
Minneapolis Minn., City Bonds	Mar.	1925	4½	25,000 00
Revere City Bonds	Apr.	1925	4	6,000 00
Winchester Town Bonds	May	1925	4	6,000 00
Cranston, R. I., City Bonds	Sept. 15,	1925	4½	30,000 00
Ipswich Town Bonds	Oct.	1925	4	1,000 00
Old Colony R. R. Railroad Bonds	Dec.	1925	4	65,000 00
Minn., Sault Ste. Marie & Atl. R.R. Bonds..	Jan.	1926	4	30,000 00
Cleveland, O., City Bonds	Feb.	1926	4½	13,000 00
Minneapolis, Minn., City Bonds	Mar.	1926	4½	5,000 00
Revere City Bonds	Apr.	1926	4	6,000 00
Revere City Bonds	Apr.	1926	3½	2,000 00
Quincy City Bonds	May	1926	4	1,000 00
Providence, R. I., City Bonds	June	1926	4	5,000 00
Winchester Town Bonds	June	1926	4	5,000 00
Chicago & Missouri Railroad Bonds	July	1926	5	6,000 00
Chicago & Northwestern Railroad Bonds..	Aug. 15,	1926	4	50,000 00

Natick Town Bonds	Oct.	1926	3½	5,000	00
Ipswich Town Bonds	Oct.	1926	4	1,000	00
Weymouth Town Bonds	Nov.	1926	4	3,000	00
Cleveland, O., City Bonds	Dec.	1926	4½	25,000	00
Cleveland, O., City Bonds	Feb.	1927	4½	13,000	00
Stanford, Conn., City Bonds	Feb.	1927	4	5,000	00
Fitchburg R. R. Co., Railroad Bonds.....	Mar.	1927	4	40,000	00
Revere City Bonds	Apr.	1927	4	6,000	00
Lynn City Bonds	Apr.	1927	4	10,000	00
Taunton City Bonds	June	1927	4	5,000	00
Arlington Town Bonds	Oct.	1927	4	5,000	00
Cleveland, O., City Bonds	Dec.	1927	4½	25,000	00
Cleveland, O., City Bonds	Feb.	1928	4½	13,000	00
Duluth, Minn., City Bonds	Apr.	1928	4	5,000	00
Lake Shore & Mich. Southern R.R. Bonds..	Sept.	1928	4	20,000	00
Toledo, O., City Bonds	Sept.	1928	4½	33,000	00
Taunton City Bonds	Dec.	1928	4	3,000	00
Minneapolis, Minn., City Bonds	Jan.	1929	3½	20,000	00
Cleveland, O., City Bonds	Feb.	1929	4½	13,000	00
Westerly, R. I., City Bonds	Feb.	1929	3½	5,000	00
American Tel. & Tel. Co. Bonds.....	July	1929	4	65,000	00
Fall River City Bonds	Nov.	1929	3½	75,000	00
Cleveland, O., City Bonds	Feb.	1930	4½	13,000	00
Quincy City Bonds	Apr.	1930	3½	1,000	00
West End St. R. R. Co., Railroad Bonds....	July	1930	4½	50,000	00
Minneapolis, Minn., City Bonds	July	1930	4¾	5,000	00
Quincy City Bonds	Apr.	1931	3½	1,000	00
Minneapolis, Minn., City Bonds	July	1931	4¾	20,000	00
St. Paul, Minn., City Bonds	Nov.	1931	4¼	50,000	00
Minneapolis, Minn., City Bonds.....	July	1931	4¾	20,000	00
Omaha, Neb., City Bonds	May	1932	4½	10,000	00
Brockton City Bonds	Nov.	1932	3½	10,000	00
Quincy City Bonds	Apr.	1932	3½	1,000	00
Minneapolis, Minn., City Bonds	Jan.	1933	3½	5,000	00
New Britain, Conn., City Bonds.....	Aug.	1933	4	5,000	00
Tremont, Elkhorn & Miss. Val. R.R. Bonds	Oct.	1933	6	5,000	00
Seattle, Wash., City Bonds	July	1934	4½	10,000	00
Augusta, Me., Water District Bonds.....	Aug.	1934	4	10,000	00
Waterbury, Conn., City Bonds	Jan.	1935	3½	10,000	00
Maine Central R. R. Co., Railroad Bonds....	Dec.	1935	4½	100,000	00
Fall River City Bonds	Mar.	1936	4	15,000	00
				<hr/>	
				\$2,455,750	00

United States Bonds

5th Victory Loan	May 20, 1923	4¾	\$35,000	00
3rd Liberty Loan	Sept. 15, 1928	4¼	210,000	00
4th Liberty Loan	Oct. 15, 1938	4¼	685,000	00
2nd Liberty Loan.....	Nov. 15, 1942	4¼	75,000	00

Total\$3,460,750 00

The following are the investments belonging to the Water Loan Fund:

Cambridge City Bonds	May	1922	3½	12,500	00
“ “ “	Mar.	1923	4	500	00
“ “ “	May	1923	3½	12,500	00
“ “ “	Feb.	1924	4	40,000	00
“ “ “	Mar.	1924	4	500	00

"	"	"	Apr.	1924	4	8,000 00
"	"	"	Apr.	1924	3½	23,000 00
"	"	"	May	1924	3½	17,500 00
"	"	"	Mar.	1925	4	500 00
"	"	"	Mar.	1926	4	500 00
"	"	"	May	1926	4	1,000 00
"	"	"	Mar.	1927	4	500 00
"	"	"	June	1927	4	1,000 00
"	"	"	Mar.	1928	4	500 00
"	"	"	Mar.	1929	4	500 00
"	"	"	Mar.	1930	4	500 00
"	"	"	Mar.	1931	4	500 00
"	"	"	Mar.	1932	4	500 00
"	"	"	Mar.	1933	4	500 00
"	"	"	Apr.	1933	3½	1,000 00
"	"	"	Nov.	1934	3½	4,000 00
"	"	"	Sept.	1937	3½	3,000 00
Revere City Bonds	Apr.	1922	3½	7,000 00		
Fitchburg City Bonds	Apr.	1922	4	7,000 00		
Lawrence City Bonds	Aug.	1922	4	4,000 00		
Natick City Bonds	Oct.	1922	3½	8,000 00		
Newport, R. I., City Bonds	Mar.	2, 1923	4½	3,000 00		
Lynn City Bonds	Apr.	1923	4	25,000 00		
Quincy City Bonds	May	1923	4	2,000 00		
Natick City Bonds	Oct.	1923	3½	7,000 00		
Newton City Bonds	Jan.	1924	4	2,000 00		
Old Colony R. R. Co., Railroad Bonds.....	Feb.	1924	4	3,000 00		
Quincy City Bonds	May	1924	4	1,000 00		
Rochester, N. Y., City Bonds	July	1924	3½	35,000 00		
Lewiston, Me., City Bonds	July	1924	4	23,000 00		
Salem City Bonds	Sept.	1924	3½	3,000 00		
Natick City Bonds	Oct.	1924	3½	5,000 00		
Central Falls, R. I., City Bonds	Dec.	1924	4	5,000 00		
Quincy City Bonds	May	1925	4	2,000 00		
Salem City Bonds	Sept.	1925	3½	5,000 00		
Leominster City Bonds	Oct.	1925	4	29,000 00		
Central Falls, R. I., City Bonds	Dec.	1925	4	10,000 00		
Quincy City Bonds	May	1926	4	3,000 00		
Burlington, Vt., City Bonds	July	1926	4	10,000 00		
Central Falls, R. I., City Bonds	Dec.	1926	4	10,000 00		
Quincy City Bonds	May	1927	4	3,000 00		
Attleborough City Bonds	July	1927	4	10,000 00		
Quincy City Bonds	May	1928	4	3,000 00		
Winchester Town Bonds	June	1928	4	6,000 00		
Quincy City Bonds	May	1929	4	3,000 00		
Quincy City Bonds	May	1930	4	3,000 00		
Quincy City Bonds	May	1931	4	3,000 00		
Quincy City Bonds	May	1932	4	1,000 00		
Newton City Bonds	Aug.	1935	4	2,000 00		
Newton City Bonds	July	1936	4	11,000 00		
Grafton Town Bonds	July	1937	3½	1,000 00		
Old Colony R. R. Co., Railroad Bonds.....	Jan.	1938	4	25,000 00		
Grafton Town Bonds	July	1938	3½	2,000 00		
Grafton Town Bonds	July	1939	3½	2,000 00		

\$413,000 00

United States Bonds

5th Victory Loan	May 20, 1923	4¾	\$40,000 00
3rd Liberty Loan	Sept. 15, 1928	4¼	45,000 00
4th Liberty Loan	Oct. 15, 1938	4¼	130,000 00
Total			\$628,000 00

MUNICIPAL FUND ACCOUNT**Bond Account**

Amount of bonds in fund March 31, 1921	\$3,577,900 00
Amount of bonds purchased	190,000 00
	<u>\$3,767,900 00</u>
Amount of bonds matured	\$232,150 00
Amount of bonds sold	75,000 00
	<u>307,150 00</u>
Amount of bonds in fund March 31, 1922	\$3,460,750 00

Cash Account**Dr.**

Cash on hand March 31, 1921	\$32,636 69
Received from City of Cambridge Annual Re- quirements	157,872 50
Received interest on invested funds	145,339 66
Received from bonds matured	232,150 00
Received from bonds sold	72,600 00
Received discount on bonds purchased.....	4,868 00
	<u>\$645,466 85</u>

Cr.

Paid to City Treasurer to redeem Municipal Debt maturing during the year	\$397,500 00
Paid for bonds purchased	190,000 00
Paid for interest accrued on bonds purchased.....	1,813 84
Paid interest on \$100,000 00 advanced by City.....	2,575 00
Balance on deposit in Harvard Trust Co.	53,575 01
	<u>\$53,576 01</u>
	<u>\$645,466 85</u>
Total amount of funds March 31, 1922	\$3,514,328 01

WATER LOAN FUND**Bond Account**

Amount of bonds in fund March 31, 1921.....	\$638,000 00
Amount of bonds purchased	22,000 00
	<u>\$660,000 00</u>
Amount of bonds matured	32,000 00
Amount of bonds in fund March 31, 1922	\$628,000 00

Cash Account

Dr.

Cash on hand March 31, 1921	\$14,723 59
Received from matured bonds	32,000 00
Received interest on invested funds	25,699 36
Received discount on bonds purchased	571 60

 \$72,994 55

Cr.

Paid to City Treasurer to redeem Water Bonds maturing during the year	\$30,000 00	
Paid for bonds purchased	22,000 00	
Paid interest accrued on bonds purchased	166 00	
Balance on deposit in Lechmere National Bank....	20,828 55	20,828 55
	<hr/>	
	\$72,994 55	

Total amount of fund March 31, 1922	\$648,828 55
---	--------------

The Committee appointed to audit the accounts of the Treasurer of the funds reports that his accounts are correct and properly vouched and his books are well kept. The bonds and coupons have been examined and checked up and found correct. The interest, bond and cash transactions of the Treasurer during the year have been carefully computed independently of his books and their correctness thereby proved.

ROBERT W. KNOWLES,

HERBERT M. BRIDEY,

Auditing Committee.

Municipal bonds to the amount of \$397,500.00 became due during the year ending March 31, 1922, and were paid from this fund. The total amount of municipal debt to be paid from the Sinking Fund now outstanding is \$6,337,000.00. Deducting the present amount of the Sinking Funds at *par value*, \$3,514,328.01 leaves the net amount of municipal debt chargeable to this fund March 31, 1922, \$2,822,771.99. There will be due to this fund from taxation November 30, 1922, the sum of \$135,835.00. During the coming financial year municipal bonds to the amount of \$360,300.00 will become payable from this fund.

Water bonds amounting to \$30,000.00 became due during the year and were paid from this fund. The total amount of water debt now outstanding is \$792,000.00. Deducting the present amount of the Sinking Funds at *par value*, \$648,828.55, leaves the net amount of the water debt chargeable to this fund March 31, 1922, \$143,171.45. During the coming year, water bonds to the amount of \$18,500.00 will become payable from this fund. Owing to the

large amount of surplus revenue paid to this fund in recent years, no payments will be required to complete the payment of the balance of the debt for which the Water Fund was created.

All municipal debt, either for municipal purposes or for water works, must now be issued serially and this board has no duty to perform in regard to any debt incurred for any purpose.

For convenience in keeping the accounts of the funds the first Commissioners of both the Municipal and Water Funds entered all bonds purchased at par value regardless of the price paid for them and entered all interest received at the gross amount without any deduction for the proportion of premiums paid, and this practice has continued to the present time. As a result, the annual reports do not show the actual value of the funds at any time, and do not show the actual income for any year. It has been the rule of the Commissioners to charge all premiums paid to expense and all discounts to income. All bonds have been held to maturity with almost no exceptions, so that the ultimate result has been the same as if the funds were valued each year at either cost price or market value.

It has been a rule with the Commissioners to keep the funds in their charge closely invested rather than to carry large balances on deposit in the banks. This has been possible owing to the care given by the Commissioners to so invest their funds that sufficient sums shall mature at the date required, to pay maturing debts. That the Commissioners have been able to do so is shown by the fact that no bonds have been sold at any time to furnish funds to pay debt, as it became due.

The change at the end of the Financial Year from November 30 to March 31, has required that the payments to the Sinking Funds should be based upon the debt incurred prior to April, 1900 outstanding on the 30th of November, previous to the end of the present financial year, as formerly.

GEORGE G. WRIGHT,
GUSTAVUS GOEPFER,
FRANCIS J. CARNEY,
HERBERT M. BRIDEY,
ROBERT W. KNOWLES,
DANIEL CRONIN.

REPORT OF THE FINANCE COMMITTEE

The annual report of the Committee on Finance is herewith submitted, it being for the financial year ending March 31, 1922.

Following is a summarized statement of the annual estimates as reported to the City Council at the beginning of the year:

City Council Expenses	\$14,720 00
Clerk of Committees	6,235 00
Executive Department	13,683 00
Auditing Department	11,303 00
Treasury Department	30,029 00
Administration of Sinking Funds	575 00
Assessors Department	19,870 00
City Clerks Department	13,561 00
Inspector of Garages	1,500 00
City Messengers Department	3,541 00
Postage and Stationery	2,000 00
Law Department	7,063 00
Elections—Registrars of Voters	7,656 00
Engineering Department	14,467 00
Inspector of Buildings	15,461 00
Civil Service Registration	425 00
Municipal Buildings	35,200 00
Police Department	360,007 00
Fire Department	350,690 00
Electrical Department	35,621 00
Sealer of Weights and Measures	8,753 00
Forestry	17,760 00
Health Department	67,320 00
Tuberculosis Hospital	51,464 00
Inspector of Milk and Vinegar	3,614 00
School Dentist	4,305 00
Inspector of Animals	2,250 00
Sewer Maintenance	23,640 00
Suppression of Flies and Mosquitoes	2,000 00
Street Sanitary Division	198,848 00
Street Maintenance	221,425 00
Street Stable Account	91,310 00
Boston and Cambridge Bridges	26,940 28
Street Lighting	78,000 00
Municipal Hospital	69,566 00
City Home	39,490 00
Outside Aid	145,730 00
Soldiers Benefits	62,268 00
School Department	1,238,508 58
Central Library and Branches	52,260 00
Park Maintenance	40,299 00
Playground Maintenance	5,085 00
Haggerty School Baths	750 00
Roberts School Baths	750 00
Thorndike School Baths	1,500 00
Cemetery Department	41,130 00

Public Celebrations	5,000 00
G. A. R. Post 30	400 00
American Legion Headquarters	800 00
City Debt Requirements	917,167 25
Reserve Fund	60,000 00
Damages, Person and Property	6,000 00
Game Warden	50 00
Telephone Exchange	3,500 00
License Commission	4,099 00
Listing Board	3,550 00
Pension Account	72,498 27
	<hr/>
	\$4,511,637 38
Estimated Revenue	1,050,000 00
	<hr/>
Leaving amount to be provided for	\$3,461,637 38

The Committee recommends that this amount be provided for by assessment upon the polls and estates of the inhabitants of Cambridge, etc., for the current year, being the amount required for Municipal, School and Public Safety Departments for the year.

Orders were recommended in accordance with the foregoing estimates and the same were adopted by the City Council.

James T. Barrett, Horace A. Skilton and William M. Hogan were appointed a sub-committee to count the cash in the treasury at the close of business on March 31, 1922. They attended to the duty assigned to them as reported as follows:

March 31, 1922.

To the Committee on Finance:

Gentlemen:

The sub-committee appointed to examine the cash in the hands of the City Treasurer at the close of business on March 31, 1922, would respectfully report as follows:

Actual cash and business checks in City Treasurer's office amount to	\$18,285 04
Also certificate of deposit showing balances at the close of business to the credit of the City Treasurer.	
1. Harvard Trust Company of Cambridge	\$138,854 68
2. Cambridge Trust Company of Cambridge	16,163 08
3. Central Trust Company of Cambridge	18,244 60
4. Guaranty Trust Company of Cambridge	57,821 29
5. Lechmere National Bank of Cambridge	2,174 37
6. Manufacturers National Bank of Cambridge.....	17,318 37
7. Inman Trust Company of Cambridge	16,005 59
8. Highland Trust Company of Somerville	18,864 16
9. Tremont Trust Company of Boston	262,791 90
10. Prudential Trust Company of Boston	5,731 62
	<hr/>
Total	\$572,254 70

Amount brought forward	\$572,254 70
Less outstanding checks	86,907 65
Cash on hand, March 31, 1922	<u>\$485,347 05</u>

JAMES T. BARRETT,
(Signed) HORACE A. SKILTON,
WILLIAM M. HOGAN.

After the above examination by your Committee, March 31, 1922, additional entries belonging to the financial years ending were made as follows:

RECEIPTS

On account:		
Licenses	\$37 00	
Court Fines	3,050 08	
City Messenger	40 91	
City Treasurer's (Fees)	87 33	
Street (General)	52 88	
Street Department (House Offal)	33 76	
Municipal Hospital	508 57	
Overseers of the Poor	20,920 97	
Park Department	3 40	
Cemetery	8 10	
Interest	617 90	
Water Department Miscellaneous Accounts	139 32	
Agency Accounts:		
Licenses, Dog	144 60	
Licenses, Hunting	1 85	
Licenses, Fishing	85	25,647 52
		<u>510,994 57</u>

EXPENDITURES

On account.		
Draft No. 631	\$571 64	
Draft No. 632	1,873 89	
Draft No. 633	42 73	
Draft No. 634	1,007 72	
Draft No. 635	14,515 36	
Draft No. 636	59,492 19	
Draft No. 637	105 91	
Draft No. 638	292 66	
Draft No. 639	1,030 70	78,932 80

Which deducted from the foregoing total receipts shows a balance in the City's Treasurer's hands as of March 31, 1922, of \$432,061 77

The sub-committee also examined the total cash receipts and expenditures as per City Treasurer's Ledger, and find the same to be as follows:

Cash Balance, March 31, 1921	\$453,821 06
Cash Receipts for year ending March 31, 1922	10,538,552 72
Total cash for year ending March 31, 1922	\$10,992,373 78
Total cash expenditures for year ending March 31, 1922.....	10,560,312 01
Which deducted from total receipts shows a cash balance as of March 31, 1922	\$432,061 77

The above statement of receipts and expenditures was verified by comparison with the City Auditor's Statement for the year ending March 31, 1922. The sub-committee also examined the securities belonging to the Cemetery Fund and Sarah E. Russell Fund, both held in trust by the City Treasurer, and find the same to be correct.

JAMES T. BARRETT,
HORACE A. SKILTON,
WILLIAM M. HOGAN,
Sub-Committee on Finance.

The foregoing report was transmitted for inclusion in the general report of the Committee hereinbefore given.

JAMES T. BARRETT,
FRANK J. LEHAN,
WILLIAM M. HOGAN,
HAROLD M. BRADBURY,
HUGH G. ANDERSON,
FRANCIS D. COADY,
CHARLES H. SHEA,
JAMES E. MAHLER,
HORACE A. SKILTON,
ROLAND E. BROWN,
ARTHUR DRINKWATER,
DANIEL P. LEAHY,
JOHN J. McCARTHY,
FRANKLIN H. WRIGHT,
MERRILL GRISWOLD,
Committee on Finance.

SCHOOL COMMITTEE

From January 1, 1922 to January 1, 1923

HON. EDWARD W. QUINN, Mayor.....Chairman

MR. CHARLES F. HURLEYVice-Chairman

MRS. JESSIE W. BROOKS, 10 Linnaean Street

MR. JAMES S. CASSEDY, 336 Harvard Street

Miss Nora J. Driscoll, 17 Sumner Road

MR. CHARLES F. HURLEY, 1218 Massachusetts Avenue

MR. CHARLES F. J. McCUE, 10 Prentiss Street

Mr. Francis J. Roche, 94 Amory Street

OFFICERS OF THE BOARD

January 1, 1922

SUPERINTENDENT OF SCHOOLS

MICHAEL E. FITZGERALD.....30 Bellevue Avenue

ASSISTANT SUPERINTENDENT AND DIRECTOR OF CONTINUATION SCHOOLS

JAMES DUGAN.....30 Blake Street

SUPERVISOR OF PRIMARY SCHOOLS

KATHARINE L. McELROY.....31 Gray Street

SUPERVISOR OF KINDERGARTENS

ALICE V. McINTIRE.....3 Linnaean Street

AGENT OF THE SCHOOL COMMITTEE

CONSTANTINE J. CHURCH.....87 Fayerweather Street

SECRETARY OF SCHOOL COMMITTEE

AGNES M. WADDEN125 Hampshire Street

OFFICES AT CITY HALL

Offices open from 8 o'clock A. M. to 4 o'clock P. M. every day
excepting Saturday. Saturday from 8 o'clock A. M. to 12 o'clock M.

In Memoriam

RUEL H. FLETCHER

Principal of the Thorndike School Dec. 1857

Master Emeritus Jan. 1910

Died Jan. 15, 1922

MARIA L. BALDWIN

Teacher in the Agassiz School Oct. 1882

Principal of the Agassiz School Nov. 1889

Master of the Agassiz School Sept. 1916

Died Jan. 9, 1922

MARY E. G. HARRINGTON

Teacher in the Willard School April 1881

On the Pension List

1918-1922

Died Feb. 9, 1922

REPORT OF SUPERINTENDENT

I submit herewith my tenth annual report, which is the fifty-fourth in the series of annual reports by the superintendent, and the eighty-second of the printed reports of the School Committee of Cambridge.

The following report shows the organization of and the attendance in the several units of the school system from the High and Latin School and the Rindge Technical School, through the elementary schools to the kindergartens.

	Regular Rooms	Irregular Rooms	No. of Seats	No. of Pupils	Extra Seats	No. of Seats	No. of Pupils	Kindergarten	Special	Hall	Library	No. of Pupils	Teachers' Room	No. of Seats	Total	No. of Pupils	Extra Seats Used
†Agassiz	11	1	424	441	21	40	35					24	22	464	476	43	
†Boardman	8		361	388	33	55	47							416	435	33	
Ellis	12	1	517	377					25					559	402		
Felton	3	3	166	153					18					191	171	18	
Fletcher	15		732	613	7					13				749	626	20	
Gannett	4	2	199	198	10	30	30							229	228	10	
Gore	10	1	425	358		46	46		23					450	427		
Haggerty	8	2	385	391	47	44	44			33				462	435	80	
Harvard	15	2	708	571	14				11					732	582	14	
Houghton	14	2	675	638	7	50	50		15	15				725	703	22	
†Kelley	16	4	714	720	20	40	56	16	14	79	20	20	14	754	790	149	
Lowell	4	0	132	111		24	29	5						156	140	5	
Merrill	8	0	319	240		46	45							365	286		
Morse	17		808	696										808	696	3	
Parker	5		188	162	3	49	49							237	211		
Peabody	14	1	653	521		50	40							703	561		
Putnam	11	1	524	436					38					584	474		
Roberts	13	4	616	562					61					708	623		
†Russell	10	2	517	565	80									517	565	80	
Shepard	11		322	217		28	28		12					362	257		
Sleeper	8		302	251		50	48							352	299		
†Tarbell	4		201	231	41									201	231	41	
Thornbike	18	1	780	660		48	45		29					843	734		
*†Webster	26		1013	1049	105	40	52	6	123	98				1199	1224	111	
†Wellington	22	5	1034	990	35	50	53	3	90	73	13	13		1084	1133	214	
eWillard	12		532	509	20	50	49							582	553	20	
Wyman		3							67					72	67		
Total	299	35	13247	12048	443	746	747	30	539	315	32	73	14	14504	13334	863	
High and Latin														2395	2385	35	
Rindge															844		

* 2nd-3rd grades from the Willard

e See Webster

† 100 buildings with more pupils than regular seats

This report shows the attendance in September to have been greater by 1200 than in the previous September.

This increase was divided as follows:

Enrollment			
1920	1921	Gain	School
1,743	2,207	464	High and Latin
579	754	175	Rindge Technical
11,014	11,649	635	Elementary
494	497	3	Kindergartens
<hr/> 13,830	<hr/> 15,107	<hr/> 1,277—TOTAL GAIN	

The work previously accomplished and the perfected organization, with the addition of the new departments, seem to have inspired all to work for the accomplishment of the highest ideal—the good of our school children—thus making the past year the most satisfactory of my administration.

In September, the School Committee very wisely established a course in Physical Education for the boys of our high schools and of the two upper grades of the grammar schools. The work accomplished has been very gratifying. The parents and friends who attended the meet in the Harvard Gymnasium will testify to the good results achieved in so short a time. I look forward with pleasure to the continued success and increasing beneficial results of this work.

For many years, we have wished to establish in the High and Latin School a course in household arts. This year, the Committee, by careful planning, was able to save the funds necessary for such a course and, as a result, Cambridge has to-day one of the best equipped and best officered departments of household arts that can be found in our state.

The School Board elected in September a director of Americanization. This step was in pursuance of the suggestion of the State Board; which has taken a leading part in the work of Americanization and which cooperates with our Committee by reimbursing them 50% for all money expended. Cambridge may well call the attention of the public to the work accomplished in this department.

During the past year, Cambridge reached a very high standard of efficiency in its care for the health of the school children. I desire to express my gratitude to the Board of Health, our Head Nurse, and the corps of intelligent and efficient nurses.

Because of charter limitations, Cambridge has not as yet adopted a Junior High School plan similar to that being tried out in some of the larger cities,—new Junior High School buildings well-equipped in several districts and the seventh and eighth grade teachers placed on the same salary basis as the Senior High teachers. This would necessitate a decided increase in the tax-rate, the wisdom of which I question at this time. Cambridge, however, has departmental teaching in all seventh and eighth grades, group-work in the auditorium, pre-vocational classes and shops in all districts (securing great results), household arts and algebra in the eighth grades, thus providing for the individual pupil many advantages.

Moreover, all of the seventh and eighth grade teachers have been given an excellent course in Vocational Guidance by Dr. Brewer of the Department of Education of Harvard University, fitting them to guide their pupils correctly along vocational lines.

I hope to secure the services of an expert to give a course in Elementary Science to the same group of teachers and principals, with the view of introducing that subject into their grades.

If to this plan could be added the introduction of a foreign language, we would have nearly all the advantages claimed for the Junior High School system. The outcome of the study of a foreign language in the Junior High School system is being carefully observed and, should it prove to be advantageous, I have no doubt but that the Committee will take the steps necessary to its introduction into our system.

CAMBRIDGE MUSEUM FOR CHILDREN

During the past year the special aim of the Cambridge Museum for Children has been to increase definitely the efficiency of its service to the schools.

At the suggestion of Mr. Fitzgerald, a series of four geography conferences was held at the Museum in the fall term. The object was to give a chance (1) for discussion grade by grade of the new course of study with a view to simplifying and, to a degree, standardizing its use; (2) for considering examples of interesting projects carried out under this or similar courses of study by teachers in Cambridge or elsewhere; (3) for suggestions from the teachers of specific ways in which the Museum could be of more service to them; (4) for

showing the teachers and masters the resources of the Museum in illustrative material and reference books available for school use.

The conferences were attended by 136 teachers. Interesting in themselves, these discussions were even more interesting in their results. Immediately there was a marked increase in the after school attendance of children at the Museum. Some came for scrap book material on various countries; some for pictures to paste on "produce maps"; some to borrow cotton, rubber, and other exhibits for talks they were to give to their geography classes; some waited on the Museum workers in "committees" appointed by their classes to report on subjects like dairying, building stones, railroading; still others came to borrow reference books for their teachers or new geography readers for class use. None was sent away empty-handed.

Later came teachers with interesting reports of results, and with pieces of original work done by their children. It is now planned to hold geography conferences at the museum each fall, and to make a special feature of the exhibition of such work and of the demonstration by teachers of such class methods as have brought signal success.

Beside the holding of these conferences, and the regular illustrated lessons for school classes at the museum and at the schools, there has been an especial effort made this year to meet the increasing demand for illustrative exhibits for use in the classroom. The "traveling museum" has been enlarged from twenty-nine exhibits to sixty-seven, and a typewritten list from which to order has been put in the hands of every teacher from the fourth grade up. Furthermore, the privilege of using the Rindge Technical School truck for delivery and collection has made the exhibits so much more easily available that their use has more than doubled in the past six months.

A few figures will give a partial idea of the extent of the Museum activities during the past year:—

Children hearing lessons at the Museum	4,017
Children of Grades IV and V hearing Museum lessons at the schools	3,160
Total attendance on 12 Sunday afternoons in December, January, and February	3,634
Average Sunday attendance	302
Average attendance at Sunday lectures.....	153
Children borrowing books from Museum library	152
Volumes added to Museum library	72
Schools using "traveling museum"	14
Membership in Boys' Bird Club meeting weekly	25

Two public lectures have been given under the auspices of the Museum. On December 11, Ernest Harold Baynes talked on "Our Wild Neighbors" at the Agassiz School and, on March 17, Colonel Charles Wellington Furlong gave his lecture on "The Passing of the Old West" in the afternoon at Agassiz School and in the evening at Brattle Hall. The proceeds of these lectures go to buy lantern slides, books, etc., for the Museum.

Thanks are due to the many good friends of the Museum who have helped by giving Sunday and Thursday afternoon talks to the children, and by gifts of books, magazines, stamps, cases, and exhibit material. Special thanks are also due to the Museum committee and the ever increasing number of annual subscribers whose support has so generously supplemented the appropriations and backing received from the School Committee in helping the Museum to enlarge its service to the community.

I take this opportunity to express my gratitude to the teachers for their loyalty and fine professional spirit and to the School Committée for their sincere and hearty co-operation in everything pertaining to the welfare of the pupils.

The reports of the Head Masters of the High Schools and the heads of the different departments follow and are made a part of this report.

Respectfully submitted,

M. E. FITZGERALD,
Superintendent of Schools.

PRIMARY SCHOOLS

To the Superintendent of Schools:

Many of our primary teachers have been working under very trying conditions this year. Not only have the numbers in many cases been much too large, but in some rooms there was not furniture enough to enable each child to have his own desk.

Notwithstanding these most uncomfortable conditions, the primary teachers have worked faithfully and well. The results have been good, and in many cases excellent, but the teachers feel that they could do better work if conditions were better. Something should be done to help them. It is to their untiring devotion to their work, and their hearty co-operation in carrying out any helpful suggestion, that we owe our good results.

Knowing that the observation of work well done by another incites to self-improvement, arrangements were made for visits to some of the best teachers selected from those of our own and adjacent cities, and certain days appointed for visitation.

The attendance of pupils in the primary grades was very good until the middle of the year when it began to fall off. This is a difficulty with which we have to contend, as it takes much hard work on the part of both pupil and teacher to bring up to grade a child who has been absent from school several weeks.

We have had many changes in our teaching force this year. We have as assistants in our over-crowded primary rooms young teachers who come direct from Normal School. They are getting most excellent training as they are working with good, experienced teachers who are helping them in every way possible. I am sure this privilege which they are enjoying will be of great assistance to them when they are placed in charge of classes of their own. They are always most willing to help and most anxious to please.

READING

All first grade teachers in the city are now teaching reading by the same method. This is of great advantage since children are frequently transferred from one school to another. In former years

when three or four different methods were in use, a child in the first grade, moving into a new school district, found it extremely difficult to adapt himself to the new method. Loss of time resulted for both pupil and teacher.

The teachers are most enthusiastic over our new method. Some of our best and most experienced teachers say that the results achieved are greater than those obtained with any other method they have ever used.

Our greatest problem in teaching reading is the obtaining of sufficient, suitable material. In order to secure fluent, intelligent reading, we should have abundant easy reading matter. We have not primers enough. We should have at least twelve good primers. After having read a number of these books, children can easily read the first part of a first reader by the latter part of the first year. Second grade pupils finish a number of first readers, and read several second readers. I would suggest having two or three second readers to be used exclusively in the third grade, thus providing entirely *new easy reading* for our third grades. Many of our third readers are entirely too difficult for third grades in some of our school districts. We hope to have relief from this condition.

PHONICS

Primary teachers have been most successful in teaching phonics as their excellent results prove. After a child has completed successfully the first year's work, he is able, independently, to discover almost all new words for himself. At this period of the year's work no special time has to be given to word drill, on words containing three, four or five letters as most of the children need no help. Although we sometimes think that we are giving too much time to teaching phonics, and that the work is progressing slowly, we find we are amply repaid for the time spent by the splendid results obtained.

We cannot lay too much stress on the teaching of phonics. I feel certain if the phonic work done so faithfully and well in the lower grades, were carried on or reviewed in the higher grades, we should see great improvement in some of our reading.

NUMBERS

Most of the number work in the primary schools comes in the third grade. I find that the teachers who use the blackboard constantly

have less trouble in getting satisfactory results than those having all individual work on paper. When the work is on the board, each child looks for the mistakes in the work of every other child. Looking for mistakes in the work of others teaches children to look for mistakes in their own work.

WRITING

Children are inclined to write too small rather than too large. We have tried to correct this by having large writing in the first grade. The blackboard is used constantly and all work is carefully supervised by the teacher. When writing at the desks, good hygienic position is looked for.

I wish to thank you and the primary teachers for the assistance so heartily given during the year.

Respectfully submitted,

KATHARINE L. McELROY,

Supervisor of Primary Schools.

KINDERGARTENS

To the Superintendent of Schools:

The kindergartners this year met weekly with their Director. These weekly conferences were given over to a study and discussion of courses offered by Columbia University last summer. Two of these courses were recapitulated in the following pamphlets:

The Project Method by Professor W. H. Kilpatrick, Ph. D., Professor of Education.

Experimental Studies in Kindergarten Education by Patty S. Hill, Associate Professor of Education, Primary and Kindergarten Department.

Each kindergartner had copies of these pamphlets and the meetings were devoted to an analysis of the subject matter and its practical application to daily work. Insight was gained into new principles and methods, and at the same time, confirmation of principles and methods already familiar to us, through Froebel and his disciples, was received.

From the study of these new principles we have benefited most in the elimination of formalism. We have all been striving to act on the child's initiative and to use it as the approach to Kindergarten exercises whether games, or gifts, or occupation work. There has been more conscious observation of the children in general, and some of the kindergartners have kept record of individual children. This has enabled them to note the daily progress of each child, and to make comparisons of the different interests and characteristics of the class. The kindergartners have had practical observation of the application of new principles and methods, through visits to other kindergartners in Greater Boston, some of whom are putting special emphasis on the Project Method. Reports of these visits were made in our weekly meetings.

Miss Alice G. Wyman, who specialized in the study of games at Columbia last summer, has given two lectures on games, with practical demonstrations.

Our work in program this year has developed along different lines. The assistants have met monthly and have worked out an individual program based on the Blow program. In the meetings, these

programs have been worked over, the strong points emphasized and the weak ones built up. Some of the best lessons have been selected for demonstration. These lesson outlines have varied greatly according to the needs and special interests of the individual classes. The improvement in these programs, as presented throughout the year, has been marked.

We have been fortunate in securing the improved large material. This material has given a new impetus to our gift work. Educators in general decry the use of the small material for manipulation by young children, and the value of the large material has been clearly demonstrated in our daily work.

We have now seventeen kindergartens. The Burleigh and Parker Kindergartens have been consolidated to their great mutual advantage. The numbers at the Gannett have increased sufficiently to warrant a double kindergarten. The Shepard and Lowell also have each shown an increase in number. We are hoping to form new kindergartens in the Morse, Fletcher and Russell districts next year.

Respectfully submitted,

ALICE V. McINTIRE,
Supervisor of Kindergartens.

THE CAMBRIDGE HIGH AND LATIN SCHOOL

To the Superintendent of Schools:

In submitting a report of the Cambridge High and Latin School for the past year, I shall select a few things which seem of pressing importance and confine my attention to those.

During the past year the School Board voted to make physical training compulsory for freshman in 1921-1922, for freshmen and sophomores in 1922-1923, for freshmen, sophomores and juniors in 1923-1924. The action is entirely in keeping with the movement to emphasize the importance of physical education. People are beginning to appreciate in a degree the wisdom of investing in good health. The need of a strong body has always been great, but never greater than now; for never before has the stress of living been so severe.

The material equipment for carrying out this vote of the School Board is entirely inadequate. Mr. Smith, who is in charge of the boys, has been working under practically impossible conditions. Next year those conditions will be worse because of the largely increased numbers. During the warm months the boys may work out-of-doors, but during the winter such action is unsafe and unwise. It requires little equipment to conduct physical training classes in the modern manner. The city has already purchased the lot back of Felton Hall. If a large drill shed should be build on that, it would take care of our needs at a comparatively small cost. If the drill shed could have a large stage at one end, the school would be furnished with an auditorium also. We are sadly in need of an up-to-date gymnasium, but a building such as mentioned would carry us over until the gymnasium could be constructed.

Secondary schools are finding the problem of failures an increasingly difficult one. The pupil who fails to accomplish his work can never be wholly eliminated any more than can be the adult failure in the actual life of later years. The number of such failures, however, should be reduced to the lowest possible minimum. There are various causes contributing to present high failure rates. High schools, until comparatively recent years, drew but a small part of the young people that now come to them.

Living conditions were much simpler, home control more effective, and out-of-school influence far less distracting. Outside interests consume much time, and in many cases, largely occupy the mind to the exclusion of school interest. Excessive social life, business employment, however imperative,—anything that prevents school occupying the chief place of interest and energy, must necessarily seriously interfere with success.

Again people are realizing that the equivalent of a high school education is quite necessary to later success. Parents who formerly would not have done so send their children to high school. Statutes also make mandatory the attendance of all up to sixteen years of age except under carefully prescribed conditions.

This great influx of numbers is a splendid thing, and is to be encouraged in every way, but it increases tremendously the difficulty of successfully administering the public school system. In place of the old homogeneity there is an almost bewildering heterogeneity.

Failure to recognize this fact and to adjust our educational systems accordingly is the basic cause lying back of a large part of our student failures. Many a man in life fails of success, not because he cannot do anything well, but because he is unable to do well the particular thing he attempted. So in school many a boy fails to make good, gets discouraged, and wants to quit—not because he has not ability, but because he is attempting the wrong thing. The success of the school in eliminating failure will be measured by its success in adjusting its courses to the needs of its various groups. This does not mean allowing a pupil to elect whatever he thinks he would like. Such a thing would be far more fatal than allowing no individual choice. Experience has conclusively shown that many a pupil will avoid a course reported difficult, will shun a teacher with a reputation for demanding thorough work, or will select what some particular friend takes. This action is normal enough for a normal pupil, but most unfortunate when allowed to control the individual's education.

As far as possible the pupil's program should be made out in conference with someone able to advise wisely. Only in this way can the failures due to a wrong choice be reduced in number. Intelligence tests may aid the adviser. While these tests are not conclusive, they have been given in many thousands of cases and have demonstrated their value in helping toward a fairer estimate of what may be demanded of the individual pupil. This does not mean that one

boy should be labelled for a trade, another for a business, and another for a profession, at some tender age. Such a practice would not only be entirely un-American, but vicious educationally. Only the Omnipotent has wisdom sufficient to justify that action. It rather means directing along certain broad lines. By the time a boy completes his grammar school career he has shown certain aptitudes and certain weaknesses in mental power. These should have due weight in planning further study.

In a public school system, authorities will probably hesitate to place students arbitrarily in definite groups, provided those pupils have successfully completed grammar school. As a rule, however, parents are glad to accept advice when offered in a sympathetic manner by an adviser in whom they have confidence. The High and Latin School offers a commercial, a general, a normal preparatory, a college preparatory, and a practical arts course. The present first year class of 909 was distributed as follows:—61% commercial, 6% general, 4% normal preparatory, 29% college preparatory. The distribution of a year before was almost identical. The pupil aiming for college has his work prescribed by the college as to its character and amount. He is allowed little choice and must devote a great deal of his effort to mathematics and language study. If he is weak in either or both of these branches, he will find great difficulty in successfully completing his preparation. In the large majority of our Eastern colleges, admission can be gained only by passing entrance examinations. The character of the examinations determines the kind of preparation needed. The preparatory school must fashion that part of its work, in content and method, to meet the test. The test is difficult, far more than twenty years ago. It seeks to find what a boy knows. A Latin examination asks him to handle a passage he has never seen before, rather than one previously prescribed that he may have memorized.

Preparing for college is not by any means the principal function of the public high school, but it is an important one in the High and Latin School, where so many desire to continue study in higher institutions. Last spring there were 501 college examinations taken whose grades we know. The percentage of passing was 76. The percentage of passing in the country at large was a little under 60. In the 501 examinations were 46 for which the school was not responsible as well as others who failed in school. Of course this school

should make a better showing than the country as a whole. These facts are given as a matter of information for the benefit of the pupils who are moving toward the school, and to show accurately what it is doing in this field of effort. Office records show percentages by subjects and individual teachers. Twenty pupils took what is called the "new plan admission examinations." These examinations are not graded as are the others, and so it is impossible to include all of them with accuracy in any relative study. As the pupils taking these examinations are the better students and almost always pass, their records would improve any general average for the school. A study has been made of the grades given by the college preparatory teachers, as compared with those received at the examinations. For such teachers the marking of the examinations is a definite criterion by which their own grading must be compared. This study, extending over several years, shows that these teachers are coming very close to the standard demanded by the examinations.

Some years ago, pupils were not admitted to the Cambridge public schools until they were six years of age. They had nine years in the grades, and four or five in the high schools, five in the case of the Latin School. This means that pupils were entering school a year later, and taking one or two years more to complete the course offered by the city in its school system. Later, the age of admission was lowered to five, and this, in a few years, was followed by eliminating the ninth grade, while in the High and Latin School the course was placed upon a four-year basis. The pupils now may enter the school two years younger than formerly. This means that some are coming very immature, however excellent has been their grammar school training. The work of the school, especially in its later years, calls for a maturity which generally can only come with years. Pupils who handle the first year work, which is more or less of a memorizing nature, find difficulties increasing as they go on. When their studies call for the ability not only to acquire facts, but to use those facts in the way of comparison and drawing conclusions, they fail. For this reason, it may be wise to make the basis of our high school course five years, so that to graduate in four years will be the exception. The competent could complete their work in four years, as previously, while others needing more time would not appear failures. If this were done, the first year in the high school should be made preparatory, serving as a means of accustoming the grammar school graduate to

the high school. In various ways the transition could be made less violent than at present. The work could be arranged so that less need be expected in the way of home preparation, and more time given to study supervision. Instead of having pupils change from one room to another for different recitations it might be possible to change for part of the work only. In this way, the young pupil would become gradually accustomed to the freedom, which is a necessary part of any good high school. Only by giving freedom can self-control be developed. The danger is in plunging young pupils into too large an amount of freedom at one time. There is a type of pupil, however, who is not at all immature in years but decidedly so in mind. Adding a year will help that one little, if at all. He cannot do the work adapted to the normal because he is not normal. To attempt it means failure and discouragement. In last year's report, some attention was given to the girl who should leave the grammar school because of her age, and yet, was unfitted to do the usual work of the high school. That report gave some data as to the number of such girls who should not be allowed to continue with little children, but should be associated with pupils of their own age. To allow them to choose what line of work they should take in high school is condemning them to failure in the beginning. Such pupils should be definitely assigned to courses which they can handle, and forbidden to enter what they have demonstrated they are unable to do. During the past year, the city has installed an excellent cooking laboratory. This makes it possible to offer the sort of work the girl above-mentioned should be taking. A course in Practical Arts, where probably fifty per cent. of the time would be given to cooking, drawing, sewing, and music, with the remainder devoted to English, civics, and possibly, general science. The course, while fitted to the needs of a special class of pupils, may occupy just as much a position of dignity as any other, and good standards of accomplishment be demanded.

During the year, the pupil having trouble with lessons has received a great deal of time and attention. Helping classes have been formed in algebra, geometry, Latin, English, French, and Spanish. These give pupils two periods a day in the troublesome subject, one period devoted to removing individual difficulties. About midyear, two classes were started in beginners' Latin and two in second-year Latin, for pupils who had been unable to handle the subject to that point. Two new divisions in first-year science and two classes in cooking

were also formed, in making readjustments where pupils seemed to have chosen unwisely or to have failed in accomplishment.

Recently there was added a seventh period in which pupils who are failing, remain for study and assistance. The regular school day ends at 1:45 when pupils who are passing in all their work are dismissed. The seventh period closes at 2:30. Each teacher stays for that period two days in the week and has to deal with pupils in her own classes. The introduction of such a period will lead some young pupils who are merely loafing to do better work, so as to leave at 1:45. It will also furnish time for making up work on the part of pupils who have been absent, and securing help where they have not succeeded in getting enough in the classroom. It will help in many ways, but it will not take care of the pupil who is attempting what he is mentally unable to accomplish.

The ideal in public education should be equal opportunity in proportion to capacity. It should aim to "keep each student at his highest level of achievement in order that he may be successful, happy, and good." To quote from Professor Seashore of Iowa, "This will result in the setting up of fair standards for quantity, quality, content, and method work. In these four fundamental respects, the needs of the high and the low students are radically different. The high students can go fast and take long lessons, can do a better quality of work, and can acquire a more genuine understanding and first-hand grasp of the situation. As to the content, they can consider topics which are entirely beyond the reach of the low students, and the method of conducting the class can be entirely different. On the other hand, the low students with equally hard work, should cover a limited territory on a lower standard of quality; they should, therefore, be limited to such content as is within their reach, and should work by such methods as will meet their peculiar needs. This, in turn, will establish a fair basis for praise and blame. In the present system, we do injustice to the high student by accepting from him, mediocre work; we do injustice to the low student, by blaming him for not coming up to a standard which lies entirely beyond his capacity."

This quotation pictures rather ideal conditions, but it contains a great educational truth.

How far schools could grade according to ability and how far they should, if they could, is an often-debated topic among school men. If a teacher is gauging his instruction to the capacity of a

mythical average pupil, he is teaching what is already known to a few at the other end. This is wasteful.

Perhaps classes could be grouped according to capacity in a general way without attempting any close dividing. Any plan that would encourage the poor pupil at the same time it arouses the bright pupil, is worthy of very serious consideration.

In conclusion, I wish to express my appreciation of the service of the teachers who are always trying to make the school stronger. Also, I thank you for your sympathetic cooperation.

Respectfully submitted,

LESLIE L. CLEVELAND,
Head Master, High and Latin School.

RINDGE TECHNICAL SCHOOL

To the Superintendent of Schools:

I believe that the education of to-day must be viewed in the light of the needs of the future; that all signs point to civilization's becoming more and more mechanical and scientific. All industry, including agriculture, is today on a mechanical basis which would have been almost unbelievable a generation or two ago. It is more than likely that the next few years may see the invention of a cheaper, more generally applicable form of power than any we know now, which will still further advance the use of machines in human relationship. These considerations furnish a strong argument for the encouragement of industrial and technical education. On the other hand, the thought that, however far the world may go in the direction of increased material wealth, ease, and progress, we shall be no better off if we lose sight of the time-tested principles and truth and service, impels me to hold the firm conviction that, without the element in education which reveals the meaning and importance of social relationships, training in efficient handling of the new powers being revealed to us is not only futile, but dangerous. We have only to recall the hordes of educated barbarians who recently over-ran Europe to prove our case. All of us in educational work to-day should give some time to a searching examination of our work to make sure that we are providing for the rising generation training in the efficient use of all the powers of knowledge, combined with that training which makes for strength of character, for gentleness, and for love of humanity. To do otherwise is to send the youth of this generation forth into the world to its destruction. In no stage of history has education been so much needed as it is to-day. At no time have educators carried a heavier burden of responsibility.

ACADEMIC DEPARTMENT

In a school like ours, where so much emphasis is placed upon practical work, it is gratifying to note successful work in the purely academic subjects. Last June 23 boys took college entrance board examinations in English. Of these 23 boys, 20 passed the examination successfully. This makes an average of more than 86%. The

report of the Secretary of the College Entrance Board shows that the percentage of candidates passing the English examination from all over the country, is only 49%. This is indeed a tribute to the work done by our English department. No one who has not been actually in contact with the work can realize the consistent, patient, unremitting labor which has gone into the making of this remarkable record.

Another interesting indication of the good work of the academic department was given in the Assembly of March 24, which was in charge of the French department. The morning Assembly, which was in general charge of one of the boys, was conducted entirely in French. The Scripture passage was read from a French bible. The Lord's Prayer was repeated in unison in French. A short French drama, entitled "Dans un Ascenseur" was presented in a most amusing fashion by two boys. The exercises were concluded by the joining of the whole audience in the singing of the "Marseillaise" in French. The incident made a deep impression upon all present, and was especially pleasing as the work of boys. Our boys do not, as a rule, take kindly to foreign language work. This fact makes the success of this program more remarkable.

BUSINESS DEPARTMENT

One of the most important developments of the year has been the appointment of a highly-trained man to organize the business department. It has been clear for some years that we should be teaching cost accounting, as a subject closely allied to shop instruction. As modern business is organized, a business man who does not know in detail the items of cost in manufacture, distribution and overhead, may easily be doing a large business at a net loss. To teach cost accounting requires a teacher highly trained and experienced in business. Such a man we have been extremely fortunate to find in Mr. Bourgeois.

The effect of the organization upon the work of the school has been immediate and striking. Sufficient work to form the basis for the accounts has been found in the store and stock rooms, in keeping various records about the school, and especially in keeping failure records which are, this year, on semi-monthly basis. Training in neatness and accuracy in the keeping of records is fundamental in any education in accounting. The service rendered by the boys in this

department is of great value and convenience to every teacher. The boys gain first hand knowledge of handling stock, of the names of materials and supplies, of prices, of the preparation of printed forms, and a basis of experience for forming judgment of economical use of materials. When fully organized the records kept will be the original entries for the accounts. Not only will the young accountants learn to keep and analyze accounts, but they will know from experience the complete history of all the items which enter into expense.

It is interesting to note that, so far as can be learned, this enterprise is unique. In no other school of our grade has such an undertaking been attempted.

ELECTRICAL DEPARTMENT

Another important advance made this year has come about through the appointment of a practically trained man to organize the work in electricity. This department is one peculiarly adapted to the needs of a technical school. New discoveries and fascinating applications of old laws follow one another so rapidly that a large number of boys are keenly interested in electricity. This year the need of these boys is beginning to be more adequately met. With the development of the work now successfully inaugurated, and the provision of more apparatus for the boys to use, this department will play a large part in the school life of the boys.

Already a considerable number of earnest and enthusiastic boys have organized a radio club, which meets weekly. This club is assembling a complete radio outfit, and is rapidly becoming one of the strong school organizations.

EXTRA CURRICULUM ACTIVITIES

In a city like Cambridge, with little room for outside play, too much unoccupied time is likely to prove a burden to an active boy. It seems to be a wise policy to center as much of the interest of the boys in school activities as can be done without unduly loading the teaching staff. In pursuance of this policy many teachers have interested themselves in boy's activities. The most conspicuous and best known of these activities are, of course, the organized athletic teams. These teams provide recreation for some hundreds of boys each year. There are other less conspicuous organizations which are doing a wonderful

work for the boys. The radio club has already been mentioned. Each class organizes, also, for social activities. These organizations attract the boys who are interested in dramatics, furnish opportunities for social gatherings under most favorable conditions, and provide lectures and other entertainments of great value. They are so conducted as to teach the refinement of social intercourse, much needed in a boys' school. The Glee Club is another source of constant pleasure. Then there are the science clubs, and the chess and checker clubs, which have their devotees. All these are sound means of recreation and improvement. Another place in which the boys are doing excellent work is in the school assemblies. Each member of the post graduate class assumes the responsibility for the program to be given in the Assembly Hall, before an audience consisting of one half of the boys in the school, as the hall will not accommodate the whole school. Usually a speaker is secured who talks upon some subject of interest to the boys. Prominent in this list of speakers during the year are the names of County Commissioners, a Vice President of the Boston Central Labor Union; the Employment Manager of the Blake Pump Works; and the Superintendent of the Smith Magnetic Compass Company of East Cambridge. The boys are always generous in showing their approval of a successful program, so that the boy in charge feels repaid for the time expended. It is impossible to close this subject without a word of appreciation of the kindness of one of our younger teachers, Mr. Edward A. Sullivan, in appearing on these programs. Not only are his selections a source of pleasure to the boys, but serve an educational purpose in illustrating to the boys the power of the spoken word, and the beauty of our common language when used by a finished speaker.

Another school organization which has come to be regarded as peculiarly the property of the printing department is the school paper,—the Rindge Register. This paper is essentially a boys' product. It is crude in some ways, but it is bright and newsy and it adequately reflects the spirit of the school. Not the least of the attractions of the paper are the illustrations drawn by the boys,—cartoons which display the amiable weaknesses of fellow students, without leaving a sting behind, or which furnish a pictorial record of the happenings of the month. As the paper is written, edited, linotyped, proof-read, printed and managed by the boys, it is essentially a home product.

I have devoted a considerable amount of space to these subjects as I believe their importance warrants this continued encouragement. Each of them increases the value of school membership for the boys who participate. Moreover, the interest and devotion of the teachers upon whom, primarily, the burden of each organization rests, deserve recognition.

VOCATIONAL GUIDANCE DEPARTMENT

A record is being kept in the vocational guidance department of the following statistics regarding boys who are leaving school: Age, class, number in family, kind of work secured, reason for leaving. A conference is arranged for each of these boys with the vocational counselor. Trivial reasons which sometimes upset a boy for the time being are discovered and cleared up. Where the reason for leaving is urgent, aid is offered in finding employment. Each boy receives as a parting admonition the following advice:

“Earn more than you get”

Another most important service rendered by the vocational guidance department is the advice given in the choice of colleges and normal schools for further education. The volume of reports required by the college of the individual records of recommendation, and estimation of ability of candidates, is very large. Altogether the vocational guidance department fills a large place in the work of the school.

A short time ago a questionnaire was sent out to a considerable group of graduates asking, among other questions, what, in the graduate's opinion, was the most valuable contribution the school had made to his business success. A study of the answers reveals a rather widespread belief in the quality of *general adaptability* which resulted from the breadth of the training received to meet the requirements of their occupation. Without exception the replies indicated that the school training had been of value. The replies were especially noteworthy for their thoughtful quality.

MUSIC

Band and Glee Club

This year, as has been the case since the war, a good deal of the time devoted to music by Mr. Whoriskey has been used in the train-

ing of a glee club. Upon various occasions the club, with a boy leader, has taken part in the school assemblies and entertainments (often upon occasions when the Director was not present) to the delight of the audience. The singing of these boys is very good and the amount of pleasure derived from it is large.

It is greatly to be desired that the work in music be extended. For some years I have shared with the Director of Music the hope that a band might be organized among the boys. Such a project will call for a considerable addition to the work of Mr. Whoriskey, and some little expense. A band, like a glee club, is essentially a boyish interest. It would be a distinct addition to the list of school activities, as well as a valuable community asset.

PHYSICAL TRAINING

Not least among the new projects inaugurated this year has been the work in physical training under the direction of Mr. Joseph Smith. Although he has worked under seemingly insurmountable difficulties, in that he has had no apparatus and no space in which the classes could be held, he has somehow developed among the boys an enthusiastic interest in his work. Next year, however, when, under the direction of the School Board, he must include both the freshman and sophomore classes, a situation will arise with which we shall be totally unable to deal successfully. Somewhere in the vicinity of the high school a building should be erected large enough to take care of the classes in physical training. This is only one instance of our great need of additional quarters. Some day this need will be met. It should be met in the *near* future.

CONCLUSION

In conclusion, let me add, that I have picked out a few only of the many interesting things that might be told of the year's work. Much must, perforce, remain untold. I have left unrecognized much devoted service on the part of teachers; much of the generous, unselfish service which results from the fine spirit of many boys; much aid, encouragement and support from the Superintendent;—but I have not forgotten them.

Respectfully submitted,

JOHN W. WOOD,
Head Master, Rindge Technical School.

THE CAMBRIDGE HIGH SCHOOL LUNCH ROOMS

The following report of the Cambridge High School Lunch Rooms is submitted by the Dietitian, Miss B. L. Forbes.

The management of the lunch rooms feels very strongly that the school lunch room may be one of the strongest health agencies in the city, and it feels more and more the responsibility for the army of children which it daily serves. Food and health being so closely related, we must continue to teach these children, that food wisely chosen will make them well and strong-and happy, and that their continued good health throughout their high school course depends very much upon their food and health habits.

In the great industrial center, the New England Telephone and Telegraph Company, it has been found that the efficiency of the girls is increased 30% by proper food, and the manager of the telephone lunch rooms takes time to teach these girls to choose their lunch wisely, as he finds that such wise choosing improves their attendance and their physical fitness, and is the surest foundation for health. Cold lunches and indigestion reduce power to work.

Additional space is needed for the lunch rooms. During the winter months there is hardly standing room, and crowding is not conducive to quick service and comfort.

For illustration of the variety of food served at the high school lunch counters, the following menus are presented:

MONDAY

Corn Chowder .....	.05
Italian Spaghetti .....	.07
Chèese Sandwich .....	.05
Buttered Roll .....	.03
Coffee Roll .....	.03
Cream Puff .....	.06
Fruit Sauce .....	.05
Ice Cream .....	.05 & .10
Cake .....	.05
Cocoa .....	.05
Milk .....	.05
Sweet Chocolate .....	.05
Salted Nuts .....	.05

TUESDAY

Vegetable Soup .....	.05
Scalloped Fish .....	.07
Ham Sandwich .....	.05
Corn Muffin .....	.03
Cookie .....	.01
Apple Tapioca .....	.06
Banana .....	.04
Ice Cream .....	.05 & .10
Cake .....	.05
Cocoa .....	.05
Milk .....	.05
Sweet Chocolate .....	.05
Salted Nuts .....	.05

WEDNESDAY

Beef Stew .....	.05
Welsh Rarebit .....	.07
Egg Sandwich .....	.05
Bread & Butter .....	.03
Frankfort Roll .....	.06
Fruit Salad .....	.10
Coffee Jelly .....	.05
Cake .....	.05
Ice Cream .....	.05 & .10
Cocoa .....	.05
Milk .....	.05
Sweet Chocolate .....	.05

THURSDAY

Tomato Soup .....	.05
Succotash .....	.07
Olive Sandwich .....	.05
Bran Muffin .....	.03
Cinnamon Toast .....	.02
Banana Custard .....	.06
Cake .....	.05
Cookie .....	.01
Ice Cream .....	.05 & .10
Cocoa .....	.05
Milk .....	.05
Sweet Chocolate .....	.05

FRIDAY

Oyster Stew .....	.06
Vegetable Salad .....	.10
Crab Sandwich .....	.05
Buttered Roll .....	.03
Currant Bun .....	.03
Chocolate Cake .....	.05
Peach Charlotte .....	.06
Ice Cream .....	.05 & .10
Cocoa .....	.05
Milk .....	.05
Sweet Chocolate .....	.05

BESSIE L. FORBES,
Dietitian.

CONTINUATION SCHOOLS

To the Superintendent of Schools:

The second year of the Continuation School in Cambridge has shown how much need there is for having some educational contact with our boys and girls who are obliged to leave the regular day schools between the ages of fourteen and sixteen.

The past year has been a very trying one for boys and girls, as well as for men and women, in industry. Unemployment brought about conditions which would not have to be met in the normal school year of the continuation school. Boys and girls between the ages of fourteen and sixteen are required to attend continuation school four hours a week while regularly employed, and twenty hours a week during the time of unemployment. To meet the requirements of the continuation school law regarding these twenty-hour pupils it was necessary for the teachers to work extra time from January to June. By the opening of the school year in September, however, many of these full-time pupils having reached their sixteenth birthday, and a few having found employment, the normal time schedule was resumed.

The action of the School Board in sending the teachers to the summer session at Hyannis, as recommended by the State Department of Education, has been justified by the added interest and zeal with which their work has been carried on this year.

The only addition in equipment during the past year was made in the woodworking department. A small power saw and a jointer were provided. A beginning has been made in a household mechanics course and we hope for further development along this line the coming year.

The time given to follow-up work, both in the homes and in the industrial plants, has been of especial value. This one division of continuation school work would justify by its results the existence of the school as a part of our public school system.

The following tables give the statistics for the Boys' and Girls' Continuation Schools:

STATISTICS FOR BOYS' CONTINUATION SCHOOL

Number enrolled to Jan. 1st	734
Number returned to regular schools	29
Number discharged by reaching 16th birthday to Jan. 1st	181
Number discharged to other towns to Jan. 1st	234
Number of full-time pupils on Jan. 1st	13

Number of Boys in Each Grade, enrolled to January 1st.

Grade 4	18
Grade 5	32
Grade 6	192
Grade 7	146
Grade 8	217
High School	125
Special	4
Average grade of total enrollment for 1921	6.7

STATISTICS FOR GIRLS' CONTINUATION SCHOOL

Number enrolled to Jan. 1st	675
Number returned to regular schools	15
Number discharged by reaching 16th birthday to Jan. 1st	345
Number discharged to other towns to Jan. 1st	85
Number of full time pupils on Jan. 1st	17

Number of Girls in each grade, enrolled to January 1st.

Grade 4	4
Grade 5	19
Grade 6	171
Grade 7	172
Grade 8	197
High School	109
Average grade of total enrollment for 1921	8.8

I wish to commend the principals and teachers of the Continuation schools for the conscientious and unselfish devotion to their work; to thank the employers of Cambridge who have co-operated so well with us; and to express my appreciation of your helpfulness and sympathy in all of our problems.

Respectfully submitted,

JAMES DUGAN,
Director of Continuation Schools.

DEPARTMENT OF PHYSICAL EDUCATION

To the Superintendent:

This year marks the beginning of a tremendous growth in the field of physical education. Physical directors everywhere in Massachusetts and other people vitally interested in the health and development of our growing girls and boys are elated over the passing of the bill for compulsory physical education, which has been before the public for a number of years.

The Cambridge School Board has responded enthusiastically to the movement by voting to have physical training required for both girls and boys in the High School. Other people cannot realize, as can those who are actively engaged in this work, what a big step has been taken. Every girl and boy can be reached, and those who need corrections are receiving attention, as well as those who would naturally take advantage of every opportunity and benefit by it. Real progress from year to year should be seen. With a high moral standard emphasized throughout the physical department, it is thrilling to think what may be accomplished.

We have devoted much time to the grammar school girls and boys—feeling that the greatest attention should be given to them in order to establish the proper foundation for future success. When sufficient interest in cleanliness, health, and posture is aroused and a love for exercise is developed, a steadily increasing enthusiasm during the High School years may be expected.

The annual demonstrations of indoor work this year were scheduled early, in order to allow the scholars to exercise out-of-doors during the first clear weather and as soon as the grounds were in condition. It was an inspiration to see so many parents. In many sections of the city from fifty to a hundred mothers and fathers were out at nine o'clock in the morning to see their children participating in exercises. The girls and boys enjoyed immensely the opportunity thus afforded them of displaying the regular work of every day. Such exhibitions are very much worth while. Some pupils derive needed encouragement—others receive merited praise for leadership.

Great improvement in posture has been noted, due to the splendid response from the room teachers in following up all our sugges-

tions. Without the support of the teachers, all efforts of the physical director for general betterment would be in vain, and the value of exercise would be only temporary or individual. The co-operation of the teachers has been almost universal—they have striven earnestly to encourage the pupils to give of their best. We wish to take this opportunity to tell how much joy it has given us, to see the advance the pupils have made over the year before. Mr. Smith's work with the 7th and 8th grades outside of school hours, has given a new spirit to the boys, and has helped them to understand better all phases of physical training.

We conducted our second Clean-Up Campaign in April. The percentage of each school was much higher as compared with the previous record, showing that many more scholars passed the test for cleanliness. The eagerness of some rooms to gain 100% was beyond measure, therefore we found them remarkably clean. The provisions for cleanliness in some schools are a great asset to the community. May the time come when every building will have bathing facilities, and hygienic toilet accommodations.

In similar manner we carry out a Postural Campaign—tagging all the scholars who have excellent positions. In the High School last year nearly three hundred names, denoting the girls who had good posture, were handed to us by room teachers. These girls were put to the test of standing, walking properly, etc., until the twenty best students were chosen. These students were given a thorough examination at Dr. Lovett's Hospital in Boston. Measurements were taken and records made in order to determine scientifically the five girls with the most perfect carriage. This year at the Osteopathic convention held in Boston, a prize was offered for the girl with the best back. We sent in one of the High School girls; she stood the highest, and was voted as having the most perfect back which the physicians had yet examined.

How few of the school buildings provide proper facilities for exercise! Results are forthcoming in health, cleanliness and good posture, but there is a limitation to the amount of exercise we can offer. Each section of the city should have at least a spacious room, with windows on all sides to be used exclusively for recreational purposes.

High School girls and boys should have separate gymnasiums. Sharing the same gymnasium, neither boys or girls receive the proper

consideration for recreation. On this account there has been a backward step in the *amount* of playtime afforded the girls. With only two physical instructors for High School girls, the afternoon work suffers most extensively. There should be a third teacher whose whole time should be devoted to all kinds of afternoon recreation—out-of-doors in fall and spring.

Provisions for successfully carrying on our work must be made before long. Every possible step should be taken to feed this urgent need, which everyone should consider of the greatest importance for the uplifting of the growing generation.

Appreciating always your hearty interest in everything pertaining to the growth and happiness of the children of Cambridge,

Respectfully submitted,

FANNY E. BICKLEY,
Supervisor of Physical Education.

BOYS' DEPARTMENT OF PHYSICAL EDUCATION

To the Superintendent of Schools:

It is my intention to embody in this my first annual report, the underlying principles of our program, and to give a comprehensive idea of the goal toward which we are striving.

Upon assuming my duties as Teacher of Physical Training for the boys of the High Schools and Seventh and Eighth Grades, I was confronted by many handicaps, such as, a lack of equipment, of play space, conflicts with plans already made for the work of other departments, etc.

A careful survey suggested the following as aids to a solution of the problems arising out of this lack of essentials.

- (1) The adoption of a program which included formal gymnastics, instructions in hygiene, and directed recreation.
- (2) The introduction of forms of athletics that would fit into conditions found, and that would prove of genuine interest, so that the boys would want to pursue them in their free time.
- (3) The instruction of selected boys to serve as leaders.
- (4) The development of a form of administration that would work efficiently with all boys.

The work was divided into two distinct programs, High School and Seventh and Eighth grades.

HIGH SCHOOL PROGRAM

Before the opening of the regular classes all freshmen were given a physical examination by Doctor Andrews, the high school physician, assisted by Miss Kenney, the high school nurse. In addition, I made my own record of height and weight.

This program was arranged for the freshmen boys of the High and Latin and Rindge Technical School. Two credits are awarded for satisfactory work based on a mid-year and a final test. This test includes knowledge of Physiology and of Hygiene; and there is an Efficiency test made up of chinning, dipping, trunkbending, knee bending, running and jumping.

Each class met for forty-five minute periods twice a week. The High and Latin School boys received instructions on Mondays and

Wednesdays, and the boys from Rindge on Thursdays and Fridays. One period was devoted to lectures on physiology and hygiene which included the structure of the body, the function of the vital organs, the general care of the body, and the formation of health habits; the other period was given to formal gymnastics, marching, mass athletics, and games in squad formation. During the latter part of the second half year, instruction in first aid will be given once a week.

All the classes were held in the girls' gymnasium and the new annex. The Rindge boys were unfortunate in not having a place for gymnastics and games. In order to meet their needs, I conducted their gymnastic work in the basement of the High and Latin School annex where I had installed a Swedish ladder and parallel bars, which had been in disuse for years. This arrangement fulfilled the needs to some extent, but was really inadequate owing to the large classes.

I am planning to conduct the work outdoors in the field adjoining the High and Latin School during the spring, when the weather permits. This procedure will permit me to carry on a more extensive program.

SEVENTH AND EIGHTH GRADE PROGRAM

On my first visit to the grammar schools, I outlined my general plans of organization to the masters, teachers and pupils assembled in the school halls. I was greatly encouraged by the spirit of co-operation, interest and enthusiasm with which my plans were received.

I found that definite gymnastic programs for the class rooms had been arranged by Miss Bickley, and I decided that class athletics, efficiency tests, and inter-school contests would be most advantageous for my own program. It was decided that my classes should be held during recess and the last fifteen minutes of the school day, excepting days on which Miss Bickley's classes were to be held. Class athletics is a form of competition in which the whole class takes part, and a record is made, not by individuals, but by the class as a whole. Class athletics includes combination dip in February, standing broad jump in March, chinning in April, 60 yards dash in May. The following illustrates the method of recording averages. In the standing broad jump every body who is physically fit, jumps, and the total distance jumped divided by the number of boys jumping, gives the class average. A certificate is awarded to the school having the best average.

The efficiency tests are individual and consist of trunkbending, knee bending, combination dip, standing broad jump, chinning and 60 yards dash. A definite number of times is required and the tests are taken in their regular order and on the same day. The aim of these tests is to encourage regular and systematic exercise for well balanced development. A certificate, representing the highest honors for which a boy may aspire in physical training, is awarded to each boy passing the tests.

In order that my program might be carried out every day in every school, I requested the masters to select two leaders from each grade. These leaders met me at the Latin Gymnasium twice a week for instructions. Their faithful attendance and enthusiasm aided greatly in the successful results obtained. Printed instructions were distributed to all the schools and were posted in the class rooms.

Perhaps the most successful activity which was completed was the Basket-ball League. There were two leagues of 15 teams each from the 7th and 8th grades. The league was divided into three districts, each district having ten teams. District One games were played at the Thorndike School Wednesday afternoons. Districts Two and Three games were played at the Latin School Gymnasium on Monday and Friday afternoons. A schedule of 130 games was played, approximately 300 boys participating. The league aroused much interest and enthusiasm. The games were well attended and featured by organized cheering and cheer leaders. A wonderful school spirit was displayed by the supporters and fine sportsmanship by the players. Masters and teachers passed favorable comment upon the good influence the basket-ball league had on the general scholarship and conduct of the pupils.

As a fitting climax to the league activities, an indoor championship meet of basket-ball and track was arranged to take place at Hemenway Gymnasium on March 31st. Two basket-ball games were played for the championship of the city by two seventh and two eighth grade teams. Three track events were held. In the preliminary track meet held at the Latin Gymnasium, 330 boys participated. District cheering was one of the features of the evening. The meet was considered a great success.

The Program follows:

EVENTS

FINAL HEAT POTATO RACE

8th Grade

Name	School	No.
Harry Guttstein—Kelley		1
Alfred Souza—Fletcher		2
Benjamin Ambush—Roberts		3
Wesley Bland—Webster		4
Edmund Mockler—Agassiz		5
Edward Fitzgerald—Peabody		6

7th Grade

Name	School	No.
Thomas Vassella—Putnam		7
Nicholas Agneta—Putnam		8
Wallace Babcock—Roberts		9
John Powell—Roberts		10
Douglas Risser—Ellis		11
Neal Perry—Ellis		12

FINAL COMBINATION RELAY

School

	No.
Putnam	14
Roberts	15
Ellis	16

School

	No.
Putnam	17
Houghton	18
Peabody	19

FINAL STANDING BROAD JUMP

8th Grade

Name	School	No.
Hyman Kurzman—Kelley		20
Frank Heshion—Fletcher		21
Dudley Johnson—Roberts		22
Clarence Gunn—Morse		23
Alonzo Hilliard—Peabody		24
Ralph Hayes—Agassiz		25

7th Grade

Name	School	No.
Herbert Jackson—Wellington		26
John Cheevers—Wellington		27
Marcus Elder—Roberts		28
Cleveland Ince—Roberts		29
Hyman Craddock—Agassiz		30
Arthur Forgett—Haggerty		31

NOTE—The track events above are the final heats of the trials which were held March 14 and 16.

A demonstration drill of the class athletics and efficiency tests by class leaders of the 7th and 8th grades, to illustrate the methods by which every boy in the 7th and 8th grades, who is physically qualified, is required to participate.

Our aim is to provide "Games and Athletics for All."

BASKET BALL CHAMPIONSHIP (*8th Grade*)*Team*

KELLEY

John Temple
 Anthony Ancelmo (Capt.)
 Hyman Kurzman
 Irving Burns
 Daniel Blessington
 Harry Gutstein

Team

PEABODY

R. F. Everett MacMaster
 L. F. Leon Fitzgerald
 C. Alonzo Hilliard
 R. B. Edward Fitzgerald
 L. B. John McMahon
 SUB. John Groden (Capt.)

BASKET BALL CHAMPIONSHIP (*7th Grade*)

<i>Team</i>	HARVARD
WELLINGTON	<i>Team</i>
Walter Corbett	R. F. Donald Richardson (Capt.)
Mario Tremontozzi	L. F. Earl French
Giles Payne	C. William Pappas
Thomas Sousa (Capt.)	R. B. William Dwyer
Charles O'Neil	L. B. Raymond Heckman
Lawrence Sullivan	SUB. James O'Keefe.

NOTE—The above teams represent the winners in the elimination games held during the week of March 20.

Awarding of the Prizes by His Honor, Mayor Edward W. Quinn

The two beautiful memorial trophies for the basket ball league were donated by the family of the late John J. Ahern, formerly Chairman of the Park Commission. He was an ardent supporter of clean sport and wholesome recreation.

The memorial trophies are to be competed for annually until won three times by a school.

Adam Owerka, an 8th grade pupil in the Wellington School, has rendered valuable service to the League, serving as official timer and chief scorer.

Program under direction of Joseph J. Smith, Teacher Physical Training.

Appreciation of the interest in the league activities manifested itself in the contribution by interested citizens, of prizes for the successful competitors. Two beautiful memorial trophies for the winning basketball teams were donated by the family of the late John J. Ahern, formerly chairman of the Park Commission. Six shields were donated for the district winners. Thirty-four medals were donated for individual winners. The shields and medals were awarded by Mr. Charles Hurley, Vice-chairman of the School Committee and Chairman of the Athletic Committee. His Honor, Mayor Edward W. Quinn, awarded the two memorial trophies with a few fitting remarks on the valuable and efficient service rendered by Mr. Ahern to the City.

During the spring a baseball league will be organized and track athletics promoted. To prevent over-strain and to permit the greatest number to participate, no boy will be allowed to participate in more than one track event. In June, a grammar school Field Day will terminate the year's work.

The program for the seventh and eighth grades next year will be along the same lines as this year. A marked improvement should be shown because the masters, teachers, and pupils will be more familiar with the various activities.

Plans are under way to install posts in the school yards for the basket-ball goals. This will permit the candidates for the school teams to get such practice as they were unable to get this year.

I hope to be able to conduct a posture contest in which every boy shall be a contestant; each school to select the best (the number to be decided upon), the group selected by all the schools to be assembled at some school hall where judges will decide upon three winners.

Health talks will also be included in the regular schedule.

The program for the high schools next year will be a progression of the present one. I shall plan to have a double period for each group once a week to include instruction in physiology, hygiene, formal gymnastics, mass athletics, and games. This procedure will permit the boys to don gymnastic costume (which will allow greater freedom of movement), to engage in more active gymnastics and games, and to finish with a shower bath.

This year several of my classes have had an enrollment of over 80. Next year I shall plan to limit each class to 50 in order to give more attention to individual corrective work.

RECOMMENDATIONS

We are confronted by the serious problem of caring for the freshmen and sophomores. The present equipment is wholly inadequate to the need. At the High and Latin School the problem may be partly solved, but the Rindge Technical School presents a most serious problem. There is an urgent need for a boys' gymnasium. I suggest the erection of a drill shed, which may have an upper floor and a stage. This could be used as an assembly hall and community meeting place. It could be erected on the land adjoining the High and Latin School.

Very little equipment will be necessary to conduct my program next year.

The boys' locker room should be renovated and equipped for a class-room and office. The shower-baths should be repaired and a drinking bubbler installed.

The land adjoining the High and Latin School should be cleared of trees and shrubbery and resurfaced, to permit of out-door activities.

Allow me to express to you my sincere appreciation of your interest and to thank you for valuable suggestions. May I also acknowledge the help given and the courtesies rendered by Mr. John B. Whoriskey, his assistants, Mr. John Roach, and the masters, teachers, and attendance officers. In behalf of the Grammar School League, I wish to thank the generous and interested citizens who donated the memorial cups, the district shields and the medals.

Respectfully submitted,

JOSEPH J. SMITH,
Teacher of Physical Education.

SPECIAL CLASSES

To the Superintendent:

There are this year in Cambridge, eight special classes distributed in various parts of the city. During the year we have enrolled 150 pupils who are unfit for the work in the regular grades. These children have been given academic training suited to their individual capacity with instruction in manual work as follows: sewing, knitting, weaving, basketry, chair caning. In addition the boys in the schools where there is equipment for pre-vocational classes have had the privilege of instruction in woodwork through the kindness and courtesy of the principals.

We have endeavored to care for the physical welfare of these children, many of whom are underfed and neglected. To meet these conditions, a luncheon of milk and crackers has been provided daily for the majority of these children. We regret that thus far it has been impossible to include all the classes in this arrangement, and we hope for more adequate facilities in the fall. In districts where it is possible the children have gone weekly to the Public Baths, under the supervision of the teacher. We cannot state too strongly the need of extending similar privileges to every child in these classes.

This year has seen the meagre beginnings of a type of work very necessary for these children. A course in Manual training at the Rindge Technical School arranged for the teachers of the Special Classes has been an inspiration and an incentive to them. They are eager to give this work to the children and the minimum equipment has been promised for the ensuing year. Decidedly increased efficiency in the conduct of the classes is expected to result.

A new departure this year has been the introduction of the advanced kindergarten material for mathematics and projects. Because of the handicaps under which these children labor, this was a long felt need.

The teachers have also visited the Institution at Waverley under the direction of its superintendent, Dr. Fernald.

VISION CLASS

The class for the conservation of eyesight is held at the Roberts School, at the corner of Windsor and Harvard Streets. This class has fifteen pupils representing all grades. The aim, as the name implies, is to conserve the sight of children who have low vision. It is necessary for an applicant for the vision class to have had his eyes thoroughly examined by an eye specialist. Miss Ida Ridgeway, Child Welfare Worker for the Commission of the Blind, then thoroughly investigates the case and admission depends upon her recommendation.

The great difficulty in this work has been to get regular grade books in large type. A grammar in condensed form has been prepared by the teacher, Miss Julia Horgan, and it has been printed in large type at the Kinde Technical School. It has been in use in the class this year and has proved of great value. A spelling book is now being printed in large type.

The children are given individual instruction and are helped by large print, outline maps, and adjustable movable furniture. Through the courtesy of the Superintendent, the members of a course in the Harvard Graduate School were permitted to observe the work in this class. Fifteen student pupils came, under the direction of Mr. Allen of the Perkins Institute for the Blind.

Miss Horgan has just completed a course on the Eye given by the Commission for the Blind. This course treated of the structure of the eye, the eye diseases of children, and the reading of the prescription cards which must accompany each pupil admitted to the class.

CLASSES FOR THE IMPROVEMENT OF SPEECH

Classes for the improvement of speech are conducted in nine central school buildings. In these classes are gathered all children requiring expert instruction and assistance to correct speech disorders.

The disorders treated, although various and somewhat difficult of classification, may be separated into three groups.

- (1) Those which result from carelessness in learning to speak.
- (2) Those which are of a distinctly mental form.
- (3) Those which are caused by some physical deformity in the organs of speech.

Again, we may classify more specifically, and state that among speech defects are choreatic, unconscious, and thought stuttering,

elementary, spasmodic, and thought stammering; negligent, neurotic, and organic lisping; hesitation; and combined stammering and stuttering.

To work properly with the child of defective utterance, it is necessary that we be able to determine the causes of his inability to speak correctly; and to do this we must know how speech is produced in the normal person not affected. A comparison of the normal manner of speaking with the faulty one will show where the fault lies, and what causes it.

Impulses acting in the brain activate the organs of speech, and cause them to operate. If the organs of speech do not work properly, or if correct and prompt brain impulses are not sent to them, the result is defective utterance, as opposed to the free and easy conversation due to the co-ordination and proper functioning. The teacher in the speech classes must know the causes of lack of co-ordination between the brain cells and the organs of speech. She must know the four stages of stuttering and the five stages of stammering by which their progress is measured. The progress of both is very certain; there is no standing still; no remaining constant. If nothing be done to remedy the malady, the disorder grows worse. Stammering and stuttering cannot be outgrown.

Cambridge realizes, however, that while they cannot be outgrown, they can be cured, except in cases where there are organic defects, diseased conditions of the brain, or where treatment has been delayed until the malady has progressed so far into the chronic stage that the treatment is valueless.

It is the province of the director of these classes for the improvement of speech to remove the cause and by so doing to effect the cure. Normal co-ordination between brain and speech muscles must be re-established. Normal brain control over the speech organs must be restored. These organs must be made to respond freely, promptly, and naturally to the brain messages. Speech, after all, in all tongues and dialects however diversified consists only of a small number of articulated elementary sounds, produced by the agency of the lungs, the larynx, and the tongue.

Correct speech is proper application of the principles which govern the working of these agencies. A method, to be effective must be based first upon the right principles, and the rules must fall where

they may. The instructor must know the method, and then administer it with wisdom, to fit the needs and the requirements of the *individual* case. She must (1) tear out the improper methods of speech production; (2) replace these incorrect methods with the correct, natural ones; (3) re-establish normal co-ordination between the brain and the muscles of speech.

This is the procedure in Cambridge, beginning with a thorough understanding of each individual case, its causes and its needs, and following up this knowledge with a sympathetic application of the remedies.

And he who doubts that the work is worth while should have seen upon the platform of the Roberts Grammar School not long ago, a young girl happily reciting a graduating poem after less than a year's attendance at one of the classes; a young girl, who a few months before, had shed tears over her inability to speak one sentence correctly. Such a doubter should have seen the joy upon the face of the little child, who, after attending a class regularly, finds himself able to stand and read or talk as a normal child, saved the embarrassment and ridicule accorded defective speaking.

Respectfully submitted,

ALICE V. McINTIRE,
Supervisor of Special Classes.

VACATION SCHOOLS

At a meeting of the School Committee held April 11, 1921, it was voted that a Summer Open Air School be held at the Haggerty School building. In accordance with this vote, the Open Air Vacation School was opened on July 6th, and continued for seven weeks, closing August 24th. An account of this school will be found below.

A vacation school was also opened in the English High Building for the benefit of the pupils of the freshman and sophomore classes who failed of promotion. The school opened on Wednesday, July 6th, and continued until August 5th. Four hundred seventy-eight pupils were registered under the charge of nineteen teachers. The average attendance for the five weeks was four hundred twenty-three.

OPEN AIR VACATION SCHOOL

To the Superintendent of Schools:

Through the seven weeks term of the 1921 session of the Open Air Vacation School the city once more provided a happy, healthful summer for more than two hundred and fifty frail and delicate members of the school population. The Cambridge Anti-Tuberculosis Association again co-operated, furnishing all the food consumed during the season.

To emphasize the distinction between the aims and purposes of this undertaking and those of other vacation schools of the regular order, the school was operated this year under the name of the Fresh Pond Day Camp. The new name secured for the school the co-operation of parents who felt the need of some such opportunity for their little ones, but who hesitated to impose upon them the restrictions which they felt were implied in the term "Vacation School." Illustrated circulars explaining character of the camp were sent to the parents of those children whose school health records seemed to indicate their eligibility for membership. More than three hundred applications were received in response.

With the exception of this change in name the school was conducted as in past summers. The time was spent as far as possible

in the groves surrounding Fresh Pond,—rest, recreation, and the taking of nourishing food being important factors in the day's program. Bird and flower walks, while furnishing the opportunity for cultivating power of observation and love of nature, also supplied a mild form of exercise and afforded many happy hours. During the summer the children discovered and identified seventy different wild flowers, twenty-five birds, and a dozen butterflies.

Games, dances, physical exercises, and handicraft occupied much of the time spent in the groves. An exhibition of the handwork done during the season was a source of much interest to parents and visitors. A beginning was made in a small way with a dressmaking class, several of the members completing summer dresses for themselves. Children who desired academic work were provided with the opportunity of studying for short periods daily.

The formation of health habits and the inculcation of the principles of personal hygiene found, as usual, a prominent place in the daily schedule. The regular physical examinations were given, followed by corrective work at the school and at dental, medical, and optical clinics. To extend health education, and to strengthen its influence, the school produced the playlet, "The Quest for the Fountain of Health." Its performance was attended by more than three hundred parents and adult friends of the pupils. Five hundred pieces of health literature were distributed on this occasion.

The program below will give to those interested a fair idea of the activities of a typical day at the school:

DAY'S PROGRAM

- 9.00 Children meet group teacher at starting point for transportation to the school.
- 9.30 Opening of school; roll call.
- 9.40 Assembly exercises; setting-up drill; corrective gymnastics.
- 10.00 Milk.
- 10.05 Supervised play, walks, etc., in park.
- 11.30 Rest period, in grove or hall.
- 12.10 Wash-up period.
- 12.20 Dinner.
- 1.20 Tooth brush drill.
- 1.40 Story hour, in park.
- 2.00 Games, walks, etc., in park.
- 2.30 Shower baths, at school.
- 3.00 Grouping for transportation.
- 3.15 Milk.
- 3.30 Dismissal. (Children accompanied on trip by the group teacher.)

STATISTICS

Number enrolled	305
Average number belonging	267.4
Average number attending	238.6
Number of days school was in session	35.
Percent of attendance	89.2

I wish to express my appreciation of your continued interest and unfailing assistance in the carrying on of the work of the school.

Respectfully submitted,

GERTRUDE B. DUFFY,
Principal, Open Air Vacation School.

EVENING SCHOOLS

To the Superintendent of Schools:

The evening schools of 1921-1922 showed a decided advance in membership and attendance over those of last year. The schools opened for the fall term on Monday, October 17, 1921, and continued until the week ending December 16, 1921. Sessions were resumed on January 9, 1922, and the schools closed for the year in the week ending February 10, 1922. We were unable to carry on the work for the usual number of evenings because the increase in membership and the good attendance in our classes used up our appropriation earlier than in other years.

Classes in the work of the grammar grades, in English for foreigners, and in citizenship were conducted in the Putnam, Kelley, Roberts, Webster, Shepard and Haggerty schools. Cooking, sewing, millinery, and embroidery were taught in the Haggerty, sewing, millinery and embroidery in the Kelley, and sewing and millinery in the Roberts, Shepard and Webster schools.

The work of the Evening Practical Arts School in the Merrill building consisted of sewing, millinery, cooking and home nursing.

The trade extension restriction for membership in evening classes must be put into operation at Rindge Evening Industrial School next year, in order to obtain the approval of the State Board of Education for reimbursement. This restriction was waived during the period of the war.

A two-evenings-a-week program for pupils of evening industrial classes is recommended by the Agent of the State Board of Education. A comparison of the attendance records of two-evenings-a-week programs with those of our present three-evening program shows up decidedly in favor of the former plan. In general I feel that most pupils find two evenings a week enough for attendance at evening school. I would recommend a trial of this two-evening plan in all of our evening schools next year.

SCHOOL CENTERS

The question of School Centers received a great deal of consideration, and after a careful investigation of the enrollment, at-

tendance and expense of the various activities, it was deemed advisable to open only those buildings where there was a sufficient demand to justify the expense involved in conducting an evening center. The only building opened the past year as a school center was the Thorndike School. The following activities were offered and the classes were well attended:—gymnastics, basketball, sewing, cooking, millinery, English for foreigners, and citizenship.

The usual tables are herewith appended :

The following table shows the buildings used for evening school purposes and the character of the work offered in each :

TABLE I

Schools	Classes
Rindge School: a. Industrial Classes.	Woodwork, ironwork, printing, mechanical drawing, architectural drawing, electricity, estimating, gas engine and auto repair work.
b. Drawing Class.....	Freehand drawing.
High School.....	Academic, commercial.
Haggerty	English for foreigners, grammar school work, dressmaking, embroidery, civil service.
Kelley	
Putnam	
Roberts	
Shepard	
Webster	Cooking, embroidery, sewing, millinery.
Evening Trade School for Women.....	

ATTENDANCE AT THE EVENING SCHOOLS 1921—1922

The following tables show the attendance at the different evening schools, the number of assistant teachers, the number of graduates, and the cost of the schools for the year 1921—1922

TABLE II

Schools	Number Registered			Average Number Belonging	Average Attendance	Per Cent of Attendance
	Males	Females	Total			
Rindge Ind. Classes....	348	1	349	289	190	66
Mech. Drawing Classes	42	..	42	35	24	69
Freehand Draw. Classes	19	..	19	14	12	86
Evening High School...	171	249	420	336	246	73
Haggerty School.....	53	138	191	121	99	81
Kelley School.....	182	128	310	190	147	77
Putnam School.....	120	112	232	206	162	80
Roberts School.....	95	114	209	128	104	81
Shepard School.....	45	53	98	65	53	78
Webster School.....	75	70	145	130	107	76
Evening Trade School for Women.....	..	225	225	165	144	87
Total.....	1,150	1,090	2,240	1,679	1,288	77

COST OF THE EVENING SCHOOLS 1921—1922

TABLE III

Schools	Salaries of Teachers	Cost of Text-books and Supplies	Cost of Janitor Service	Total	Cost per Pupil
Rindge Industrial Classes....	\$2,885.50	\$765.38	\$342.00	\$3,992.88	\$21.01
Mechanical Drawing Classes...	415.36	94.47	126.00	635.83	26.49
Freehand Drawing Classes....	140.00	18.63	57.00	215.63	17.96
Evening High School.....	3,304.00	136.55	363.00	3,803.55	15.46
Haggerty School.....	1,049.35	59.65	144.25	1,253.25	12.65
Kelley School.....	1,752.35	49.32	180.75	1,982.42	13.48
Putnam School.....	1,518.85	41.10	177.50	1,737.45	10.72
Roberts School.....	1,396.85	45.35	161.50	1,603.70	15.42
Shepard School.....	722.85	17.27	123.00	863.12	16.28
Webster School.....	1,288.25	68.27	273.00	1,629.52	15.22
Girls' Trade School.....	1,476.24	142.11	167.40	1,785.75	12.40
Thorndike Civic Center	1,216.00	1.48	280.00	1,497.48	
Total.....	\$17,165.60	\$1,439.58	\$2,395.40	\$21,000.58	\$16.30

NUMBER OF ASSISTANT TEACHERS 1921—1922

TABLE IV

Schools	Average Number of Assistant Teachers	
	1920-1921	1921-1922
Rindge Industrial Classes.....	12	17
Rindge Drawing Classes.....	2	3
Freehand Drawing Classes.....	1	1
Evening High School.....	15	14
Haggerty School.....	8	7
Kelley School.....	11	12
Putnam School.....	10	11
Roberts School.....	7	8
Shepard School.....	5	4
Webster School.....	7	8
Trade School.....	9	12
Total.....	87	97

NUMBER OF GRADUATES 1921—1922

TABLE V.

Schools	Number of Graduates	
	1920-1921	1921-1922
Rindge Industrial Classes.....	10	20
Mechanical Drawing Class.....	3	4
Freehand Drawing Class.....	3	2
Evening High School.....	68	70
Haggerty School.....	8	10
Kelley School.....	20	7
Putnam School.....	35	36
Roberts School.....	22	13
Shepard School.....	14	15
Webster School.....	18	24
Total.....	201	201

ATTENDANCE AT THE STATE-AIDED CLASSES 1921—1922

TABLE VI

Schools	Number Registered			Average Number Belonging	Average Attend- ance	Per cent of At- tendance
	Males	Females	Total			
Rindge School:						
a. Industrial Classes.	348	1	349	289	190	66
b. Drawing Classes.	61		61	49	36	78
Rindge School totals.	409	1	410	338	226	67
Trade School.....	...	225	225	165	144	87
Total.....	409	226	635	503	370	74

ATTENDANCE AT THE INDUSTRIAL CLASSES (These classes were for women in the elementary schools.) 1921—1922

TABLE VII

Schools	Number Registered	Average Number Belonging	Average Attendance	Per cent of Attendance
Haggerty School.....	117	67	60	89
Kelley School.....	54	51	38	74
Roberts School.....	66	20	15	75
Shepard School.....	34	20	15	75
Webster School.....	41	30	23	75
Total.....	312	188	151	80

Cambridge is to be congratulated on the efficiency and devotion to service of its evening school corps of principals and teachers. To them and to you, who have ever been ready to aid and encourage us in our work, the success of our evening schools is due.

Respectfully submitted,

JAMES DUGAN,
Assistant Superintendent of Schools.

AMERICANIZATION

To the Superintendent of Schools:

This report on Americanization goes to you for a three-fold purpose, 1st, to outline the progress of the work since the opening of the present school year; 2nd, for the further purpose of presenting some of the basic points of view with reference to the Americanization project as it now stands; and 3rd, to briefly summarize some of the possibilities for further expansion.

The Americanization work of the present school year has been in operation since September first, the factory classes, the day classes for mothers, the club and neighborhood classes having been in session some weeks previous to the opening of the Evening Schools.

The Evening Schools have been in session since October 17. The buildings used for this purpose each year were reopened and a new Evening School in Americanization was established at the Thorndike School.

The work began auspiciously with organized publicity through the following agencies:

- Mass Meetings.
- Notices in English and Foreign language newspapers.
- Posters.
- Foreign language fliers.
- Editorial comment by English and Foreign language press.
- American and foreign clubs.
- The clergy.
- Personal letters.
- Letters to parents by children in the grades.
- Personal solicitation.
- Moving picture slides.

It was evident from the start that unusual growth and expansion would take place.

Classes in immigrant education grew so rapidly that it became necessary to open several new rooms and to add substantially to the teaching force.

A course of lectures in methodology, with demonstrations of teaching English to the foreign-born, was given at the High School.

It was attended by the teachers and principals of all the Evening Schools where there were immigrant classes. The object of this course was to give the new and inexperienced teachers a more intimate knowledge of present day methods and devices in teaching for foreign-born to supplement the knowledge gained by the experienced teacher in and out of the class room; and to bring about a sympathetic understanding, that the teachers, principals and supervisor might work together to better advantage.

An exhibit of school work done at the American Rubber Company Americanization School was shown during the course.

FACTORY CLASSES

Besides the work done in the regular Evening Schools, classes have been conducted at the American Rubber Company, the Boston Woven Hose and Rubber Company, Blake & Knowles Steam Pump Works, John P. Squires Company, the Close Candy Company, the Filene Service Shop, and the Carter Ink Company. Classes will open very soon at the Cambridge Rubber Company.

The plant class is no longer in an experimental stage, and as Cambridge was a pioneer in the work, doing much to establish its practical value, it is not necessary to discuss it further here.

It may be interesting to note that Cambridge was the first city in this state to employ a full time plant teacher, a precedent that has been followed by many other Boards of Education and by the United States Rubber Company in their various plants in different parts of the country.

DAY CLASSES FOR WOMEN

Day classes for mothers have been conducted at the Kelley School during the entire year.

The vast amount of unemployment among the men has made it necessary for many of our foreign-born women to find some remunerative employment, thus making it difficult to form day classes for the women. They have, however, attended the evening classes in large numbers.

NEIGHBORHOOD AND CLUB CLASSES

Very successful neighborhood classes have been held at the Lowell School, the Hebrew School, the Holy Ghost Hospital, the Neighborhood House, and the Margaret Fuller House. The attendance has been regular and excellent work has been done.

The establishment of an Americanization School at the Holy Ghost Hospital is worthy of special note, it being, probably, the only one of its kind in existence. The classes are made up of girls who assist in the kitchen and in the wards of the hospital. Many had never had any opportunity for education, and were unable, when the school opened, to write their names or read any English. The school opened with one class, but it became necessary to employ two teachers. The attendance has been perfect week after week and remarkable progress has been made.

NATURALIZATION AND CITIZENSHIP

A special effort has been made on naturalization and citizenship work. Approximately two hundred pupils in the evening schools and industrial classes have taken out "first papers" during the year.

Lists of petitioners' names were provided by the State and Federal Department of Immigration. A personal letter was sent to each petitioner stating the advantages offered by the School Board in preparing immigrants for citizenship. Personal visits were also made at the addresses given on the cards, and the opportunity for education explained.

Many responses were received and several citizenship classes were formed, the number of pupils being eighty-five.

The "Thirty Lessons in Naturalization and Citizenship" prescribed by the State Department of Education formed the basis of instruction. Twenty-four pupils have already completed the course and have been examined.

By a special arrangement between the state department and the Federal Bureau of Naturalization, an examiner was sent to Cambridge, and the petitioners were given their final examination for admission to citizenship in the classroom, instead of having to go to Boston for examination as previously.

The results of this examination were very gratifying and spoke well for the work of the teachers conducting the class. Each man

passed, answering the questions of the examiner in a creditable manner. Twenty employees of the American Rubber Company are taking the naturalization course in the plant school, and will be given their final examination at the factory in June. Two naturalization classes of twenty-three pupils have been established at the Blake & Knowles Steam Pump Works, and these also will be examined in June. Another group is studying at the Filene Service Shop at Kendall Square, and they, too, will be examined in the plant. Yet another class is being organized at the Cambridge Rubber Company and these pupils also will be ready for examination at the close of the year.

The advantages of these arrangements whereby the petitioners are examined in the classroom instead of in the Court, are obvious. The applicants are more at home in the environment of the school-room, and more at ease in the presence of their teacher in whom they have learned to place entire confidence. Under the old arrangement it was often necessary to stand in line with two witnesses for several hours, the loss of working time by the petitioner and by both his witnesses meaning a definite loss of money.

It is safe to say that to these men to whom education itself is new, an educational examination is less trying in the school environment than in the more austere environment of the court room.

Citizenship students who are recommended by the Cambridge School Department and by the Federal Examiner are awarded the official diploma issued by the Federal Bureau of Naturalization, Department of Labor. It is planned to make the occasion of granting these diplomas a significant one.

SOCIALIZED AMERICANIZATION

In many communities in Cambridge, as in other large cities, the racial elements are segregated. It is not necessary to say that racial languages and customs are kept up in this way, and that as long as the foreigner continues to live in isolated communities, and to remain in isolated groups—to perpetuate the old-world methods of thought and attitudes, so long will he present to America the serious problem that he does at this time. One way of offsetting this condition in a community is the introduction of social features at which the American-

born and foreign born may mingle and so establish contacts of a social nature.

This has been done on many occasions during the past year. In the various evening schools and classes, programs of a social and educational nature were presented.

Social meetings were also held under the auspices of the Women's Americanization Committee, at which the program was supplied jointly by the Women's Committee and the pupils. Refreshments were then served by various organizations, and a social hour spent when the pupils of all nationalities met with their American neighbors in an evening's enjoyment.

Afternoon meetings, also, were held in various sections of the city. Immigrant mothers were invited and they attended in large numbers.

Such occasions when the Portuguese, the Polish, the Italians, the Greeks, the Hungarians, the Americans and all others meet together in wholesome enjoyment, entertaining and being entertained by one another can only result in the development of a better spirit of loyalty to America. It fosters a broader sympathy among all of us and it offers a greater incentive to learn the American language and to be an American.

UNION GRADUATION AND EXHIBIT

At the close of the Evening School year, a union graduation was held in the High and Latin School Hall. All classes were in attendance. A program contributed by the pupils themselves was presented as follows:

PROGRAM

Chairman—Mr. M. E. Fitzgerald, Superintendent of Schools.

Concert.

By the Portuguese Liberty Band

8 to 8:15

Processional

By the Americanization pupils

Song

"America"

Address of Welcome

Mr. Charles F. Hurley, Vice Chairman of the School Committee

"Song of the Volga"	<i>Russian Choir</i>	"Anne"
The Spirit of America	<i>Original Essay</i>	Mr. Antone Alves
"Marinariello"	<i>Italian Solo</i>	Miss Susie Galligani
Hon. Edward W. Quinn	<i>Address</i>	Mayor of Cambridge
Polish Pupils	<i>Polish Folk Dance</i>	
<i>Stories of the New America</i>		
Why America is a Wonderful Country		Mr. Patsy Patacchiola
What America Means to Me		Miss Hella Samt
Why I Came to America		Mr. George Boghikian
Gypsy Chorus from the Opera "Pretzioza"	<i>Russian Choir</i>	By Weber
Mrs. Angelina Borea	<i>Italian Tarantelle</i>	
Mr. Rocco Crusco		
<i>America's Making</i>		
The Nations	Named in the order of their entrances	
Liberty	Miss Catherine M. Connell	
Uncle Sam	Mr. Fred A. McNamara	
Cambridge	Miss Alice C. Nolan	
Ireland	Matthew Finnerty	
Greece	George Galconci	
Belgium	Pauline Timmermans	
Portugal	Alice Roderick	
Italy	Yolanda Enriko	
Massachusetts	Miss Julia V. Looney	
Lithuania	Mary Chunis	
Hebrew	Taube Fooks	
Poland	Stanley Chesnick	
Russia	Mary Martchurs	

The selection of characters is based on the nationalities in school

Mr. Charles M. Herlihy	<i>Address</i>	Asst. State Director of Americanization
------------------------	----------------	---

Mr. John S. Whoriskey	<i>Star Spangled Banner</i>	Leader	Miss Mary F. Ahern	Pianist
-----------------------	-----------------------------	--------	--------------------	---------

Portuguese Liberty Band	<i>Recessional</i>
-------------------------	--------------------

The occasion was one which will be long remembered by the foreign-born pupils who assembled in such numbers that the hall was filled to overflowing and many were obliged to stand. The words of encouragement and good advice given the classes by the speakers were

very much appreciated, coming at the end of a year of hard work and persistent effort.

An exhibit of school work was shown on the walls of the hall. Original essays, bills, receipts, checks, domestic and international money orders, social and business letters, letters answering advertisements and ordering goods by mail, first and second paper filled out by pupils, pay checks signed by pupils who were unable to write when school opened, and specimens of handwriting showing progress, were among the material presented.

The object of the exhibit was to give to school officials and friends of the pupils an opportunity to see the character of the work done during the year.

The following survey of the status of Americanization in Cambridge is submitted:

EVENING SCHOOLS

Names	Number of Classes
Putnam	11
Kelley	8
Roberts	4
Webster	4
Haggerty	3
Shepard	1
Thorndike	1
Total number Evening Classes	32
Total number pupils belonging	723
Total number adults belonging	522

FACTORY CLASSES

at the	
American Rubber Company	
Boston Woven Hose & Rubber Company	
Blake & Knowles Steam Pump Works	
Close Candy Company	
John P. Squires Company	
Filene's Service Shop	
Carter Ink Company	
Total number of Factory Classes	24
Total number belonging	291

OTHER CENTERS

Names	Number of Classes	Number Belonging
Holy Ghost Hospital	2	23
Hebrew School	2	29
Lowell School	1	17
Kelley Afternoon School	2	32
Neighborhood House	2	29
Margaret Fuller House	1	7

Total number of Day and Club Classes	10
Total number belonging	137
Total number Americanization pupils in all classes	1,141
Total number adults in all classes	945
Total number of teachers engaged in Americanization work.....	45

GROWTH IN AMERICANIZATION AS COMPARED WITH ONE YEAR AGO

Each phase of the work has grown since the opening of the school year, the number of pupils and classes more than doubling themselves in some cases.

Evening Schools	Gain in Number Belonging
Haggerty	161%
Kelley	26.9%
Putnam	24%
Roberts	111%
Shepard	26%
Webster	104%
Thorndike Americanization School established this year	
Average gain in total number of pupils	93.6%
Gain in number of Evening School Classes	68%
Gain in number of Factory Classes	144.4%
Gain in number of Neighborhood and other classes	80%

The possibilities for further expansion in Americanization are along certain definite lines. They may be limited at the present time to four groups of activities:

1. Classes for unemployed men.
2. Mothers' Classes.
3. Classes in the churches of the foreign-born.
4. Factory Classes.

Constructive plans concerning all four activities are now definitely outlined, and it is thought that before the end of the year additional classes in each group will be under way.

In closing my report, I wish to take this opportunity to thank you for the aid your practical advice and sound judgment have been to me on many occasions; the Assistant Superintendent and Director of Evening Schools for his hearty encouragement and helpful suggestions; and the Evening School principals and teachers who have worked untiringly in making the year a splendid success.

Respectfully submitted,

ROSE M. O'TOOLE RONTEAU,

Director of Americanization.

DEPARTMENT OF ART EDUCATION

To the Superintendent of Schools:

I am submitting to you the second annual report of the Department of Art Education.

ELEMENTARY SCHOOLS

At the close of the school term in June, Miss Lucia N. Jennison resigned her position as assistant in art education, and Miss Harriet M. Simpson was appointed to the position.

Several conferences were arranged with Miss Simpson before the opening of school in September 1922. As a result of these conferences, it was decided to present the new course of study to the teachers and students.

This course of study was presented

1. by lecture
2. by outline
3. by illustrated text

At the lectures begun in the early fall, the outline was described and explained in detail, and the illustrated text was given to each teacher.

There have been distributed, through the courtesy and co-operative spirit of the office practice classes in the High School and the printing department of the Continuation School, many hundreds of neostyled and printed sheets together with the illustrated text. I take this occasion to emphasize the value of their generous assistance in this work.

All grade teachers were required to attend lectures on the new course of study at intervals of two months. Director and Assistant visited the various schools to ascertain the progress of the work and to assist the teachers whenever necessary. Specific days were named for conferences with those teachers requiring extra assistance. It was deemed advisable to consider these conference days a permanent feature, so Tuesdays and Thursdays from one to three o'clock were made regular office days for the Art Department.

The first two lectures were on "Color Theory and Application." Color charts were constructed by the teachers for their individual classrooms. The first, second, and third grades have, for classroom use, one large Neutral (3) Value Chart, one 6 Point Color Chart (Brewster Theory), and one Color Value Chart (5 Values). In the fourth, fifth and sixth grades, a Neutral Value Chart is substituted for the (3) value of the lower grades, and in the seventh and eighth grades a Neutral (9) Value Chart is used, and the Five Point Munsell Theory is taught.

The ultimate aim of all of our work is to develop in the minds of these young people an appreciation of beauty anywhere and everywhere—whether it be in nature, historic art, the printed book, costume, or a manufactured article; they all exert a potent influence on the happiness of the individual. True art education would assist society in interpreting the world and attaining happiness.

The third lecture was devoted to theory of design, its dependence on good color harmony, and the application of both in the class-room.

In the fourth lecture representative drawing was emphasized. Stress was placed on memory drawing, imaginative drawing, and directed observation. In this work the children are trying to register certain mental impressions on paper. This intensifies their mental impressions and encourages observation which in turn stimulates the imagination. When they draw from memory we call this "memory drawing." If they are trying to arrange shapes and figures in a way that is different from the memory drawing, we call this "imaginative drawing," (inventing, creating, composing or designing). If the figure, object, or group is where the child can observe it, and this observation is carefully directed, we call it "directed observation." These three subjects (memory drawing, imaginative drawing, and directed observation) are subdivisions of representative drawing.

Lettering was introduced in all of the grades at the fourth lecture. Emphasis was placed on careful analysis of all letters; the elimination of superfluous lines and elaborate ornamentation; beautiful proportions; simplicity of line; and the relation of good lettering to design.

Manual training for the first, second, and third grades was also emphasized at the fourth lecture. Its aims should be

1. to organize activities induced by the play instinct
2. to develop ability in following directions
3. to develop some power of free expression

This work involves paperfolding, cutting, measuring, and ruling. In this there is a certain amount of mechanical ingenuity that is immeasurably fascinating to the child, and may be the vehicle which some day will lead to scientific genius. Although the three R's are not emphasized in Manual Training, the three H's, the Head, the Heart, and the Hand, are actively engaged.

SUPPLIES

There is an immediate need for certain supplies (brushes, scissors, compasses) which have not been replenished for several years. This material, if given proper care will last for many years. There has been within the past few months a reduction in price of paper which should make the purchase of a good quality possible.

Especial commendation is to be given to those who have helped to carry forward the work of the department, especially those teachers, principals and masters, who have done much of their work with a lack of many materials. The general advance of the work has been due to the excellent work of the elementary teachers who have striven to raise the art standards through their teaching. They have attended regularly all lectures given by the art Department. No stronger testimony could be offered of the strong spirit of professional responsibility than the excellence of their students' work in Art.

In connection with the service of the corps, I desire to make mention of the following assistants: Miss Harriet Simpson, whose many hours of untiring effort have enabled me to strengthen the work in the department as a whole; and Miss Helen Morton, whose assistance has aided greatly in co-ordinating the work of the High Schools and the Grades.

I appreciate the hearty co-operation which you and your assistants have given to this department. I greatly value the Directors' and Supervisors' Conferences (held monthly by you) in presenting the different phases of organization. These conferences have had a very salutary effect on the work in this department.

HIGH SCHOOLS

The courses of Art Education in the Cambridge High and Latin School are arranged with certain definite aims in mind.

It should be remembered that the child who is taking Art Education will soon be a citizen of the community. This citizen will have certain problems. He is a home-maker, a business man, a manufacturer, a tradesman. Art training should do something for him that will help in his special work. The course of study should help each future citizen to meet his needs.

The Art course should help the prospective tradesman to dress his window, the milliner to select harmonious colors, the dressmaker to appreciate beautiful lines, the housekeeper to choose her rugs, the stenographer to arrange the spacing on her letters, and the citizen at large to appreciate all this.

The particular needs in our community are among the above. Each of these needs is helped by a better understanding of design. Design is orderly arrangement; it shows in the placing of the furniture in a room, as well as in the spacing a letter-head. All adults and children are designers whether they realize it or not.

It is, therefore, imperative that we pay much attention to design in our course in Art instruction. In design we deal with lines, shapes, and colors. We work toward construction and decoration rather than toward representation. For this reason we begin with the simplest form of arrangement, and the definite study of color.

Color plays a very important part in the life of the individual; it is essential to happiness; it is more constant than music. When color is arranged in the right combinations and proper proportions it gives a feeling of contentment. We have introduced into the High School Art Course the Munsell color system. This will make for finer color adjustment and ultimately lead to a better color discrimination.

In our work in design we go to nature. Natural forms are studied. Proportions are carefully observed and details noted. The pupils strive to create a work of art using the natural form only as an incentive. Theory and fundamentals of design are taught to the pupils and then applied by them. The modes of order are sought in nature and corresponding ones are found in works of art.

Representative drawing is taught not with the intention of making picture painters or art specialists. Only a few especially talented for such work become artists. It has been estimated that only five per cent of our people are producers of Art products, while ninety-five

per cent are consumers who use their knowledge of drawing and design only as members of the purchasing public.

The three main divisions in the work in Art Education are as follows:—

1. Culture and Aesthetics

- a*—To enjoy and appreciate nature.
- b*—To enjoy and appreciate fine art.
- c*—To choose between the ugly and beautiful.

2. Observation

- a*—To train the eye to note subtle differences.
- b*—To develop keen vision.

3. Means of Expression

- a*—To record observations by intelligent expression.
- b*—More advanced expression by the more talented in various mediums.

The classes in Freehand Drawing and Design are greatly hampered by lack of proper space and teaching facilities. There should be at least one additional Art instructor in the High Schools. This would give an opportunity for accommodating the many students who are desirous of taking Art subjects during their high school course. The organizing of the new practical arts course in the high school means an immediate need of an extra teacher.

There is a lack of proper material; beautiful prints, suitable casts, and samples of textiles (cretonnes, etc.), are necessary to teach the child to know and appreciate the beautiful.

In the Mechanical Drawing Department the aim is to train the pupil to be accurate and to appreciate beauty as applied to architecture and interior decoration. The classes are of an ideal size, there is opportunity for discussion as well as drawing, and the pupil's interest is frequently awakened to subjects allied with the above. There have been interesting examples of china, glass, and Russian brass, as well as textiles and carving brought in. These have stimulated considerable research work on the part of the pupils.

In this way a desire to feel beauty and to learn of beautiful things is aroused and, once aroused, such interest is usually maintained throughout life, whatever work is taken up.

Knowledge of art, aside from its practical value to those who become professional artists or architects or decorators, is of vast im-

portance in æsthetic training. No condition of what we call culture is more to be desired.

Outlines of all high school work in art education are in the hands of the superintendent, head master, and the instructors of art education in the high schools.

Respectfully submitted,

ALFRED F. BURKE,
Director of Art Education.

DEPARTMENT OF MUSIC

To the Superintendent of Schools:

Consistent progress has marked the study of Music in the grades during the year. The cheerfulness of the children in approaching the music lesson, their ready concentration, and their accomplishment of the desired objects,—improved tone quality and sight reading ability, coupled with an appreciation of the musical content of the selections,—are among the direct results noted. I wish to record my appreciation of the splendid co-operation I have received from my assistants, Miss Wyman and Miss Ahern, and from the grade teachers, upon whose shoulders falls the drudgery of the daily drill.

No work in the primary grades is more important than that of correcting children who fail to follow the tone line correctly. The number of absolutely tone deaf children is very small; but there is always a large number at the beginning of each year who must be graded as partial monotones, and their faults corrected. In October 6500 pupils in the primary grades were tested. Miss Ahern's report showed that 1499 of these failed to sing in tune. The April census showed that 909 pupils had corrected their defect and were singing with their classes. At the request of Miss McIntire, supervisor of kindergartens, who feels that this work cannot be begun too early, Miss Ahern has occasionally visited the infant classes to aid in correcting tone quality there.

In the Gore School technical music was set aside in the first two grades to permit the teachers to concentrate on English among the newly arrived children from foreign countries. Rote songs only have been given in these grades. A special course for the Third Grades in this building to take care of next year's conditions is in preparation.

Individual work has been the feature in the intermediate grades under the supervision of Miss Wyman. As in the primary grades it is the policy in these classes to have every boy and girl do his or her share of the work as an individual. The method employed results in the keenest concentration. A very interesting phase of the work here is the yearly "concert," or "recital," given in each building by

the combined classes of each grade. The program in every case has been prepared by a committee chosen by the classes from their own membership and it has proven enjoyable to teachers and pupils alike. Toward the close of the year a simple examination, oral and written, has been given in each grade.

While the "concerts" spoken of above have been given only in the presence of teachers and pupils, we have one school where a public exhibition of the work is given annually,—the Morse. The object is not to have everything highly polished and learned by note, but to present the classes under exactly the same conditions that exist daily in the school room. In his efforts Mr. Salmon has had able assistance from the teachers in his building, and the evening spent by the friends and parents of the children is profitable. The work of the art and the sewing departments is also shown.

In the eighth grades throughout the city, pupils generally have shown less of the restlessness that marked the past few years, and this has resulted in much superior work. For years it has been customary for the Director of Music to personally conduct the music of the graduations. His duty during the year is to instruct teachers, as well as pupils, and throughout May he rushes from building to building and directs the "polishing off" process; but the daily drill is the task of the room teacher, and it would seem fitting that she should get due credit by conducting her classes on graduation day, when the parents are present. Each teacher has sought to avoid being the "center of attraction" as it is usually expressed; but last year I prevailed on several to overcome their scruples and wield the baton. I hope to extend this practice as time goes on.

At the Peabody building, at the Fletcher, and at the Roberts, orchestras have been formed and have played at school functions. These are under the direction of Miss Wyman, Miss Chamberlain, and Miss Connell respectively.

THE HIGH SCHOOLS

During the summer of 1921 the School Board adopted a resolution favoring the formation of a brass band at the High Schools. The vote carried with it no appropriation for the purchase of instruments, nor did it provide for practice within school hours. The establishment of a band similar to the famous Rindge band of treasured memory

has been my dream for several years, but money for the initial cost of equipment has never been available. Mr. Rindge lavished hundreds of dollars on instruments, music, uniforms, and other necessary accessories. With four instruments borrowed from Professor Kennedy of Harvard University, and a few cornets, clarinets, and drums owned by pupils, I made the attempt to establish a band and for three months continued the effort outside of school hours. As no credits were offered, and many of the boys had business and other interests outside, the effort was given up. I am in favor of organizing a band at Rindge Technical school, provided the means may be found to equip it, but in order to make it a success the unusual instruments must be furnished by the school department; practice must be within school hours; and credits toward a diploma must be awarded.

No opera was presented during the year by the musical organizations of the High and Latin School. This was in accordance with a request of Mr. Cleveland, the principal. The musical organizations were heard during the evening of the song contest between Rindge and High and Latin for the cup presented in 1915 by the First Volunteers' Citizens' Association. The choir at Latin School has furnished the music for the assemblies, and here, as at Rindge, individual performers from the student body, all of them possessing unusual talent in their respective lines have played or sung, to the edification of pupils and teachers. The boys' glee clubs and the choir also presented special selections in their turn.

There are two orchestras at High and Latin School, one composed of a preparatory class, the other of players who have proven their ability. The latter organization made several public appearances with credit to themselves and to the school. During the year I have loaned to pupils two trombones, two clarinets, a set of tympani, and a saxophone. The last named instrument was purchased for approximately \$110, the money being a portion of that earned by the choir in its presentation of operas during the three years just previous. The orchestras are composed principally of violins. Unusual instruments are scarce, such as the viola, the double bass, the cello, the oboe, the bassoon and the horn. In other communities these instruments are furnished by the school department. Cambridge might well emulate their example if we are to secure the proper instrumentation for our future organization. With the instruments provided, it would be an easy matter to induce parents to defray the cost of private instruction.

ATTENDANCE OFFICERS

The work of the attendance officers is carried on under the direct supervision of the superintendent. There are seven officers, one being assigned to the high schools, five to the different school districts, and one to the work of looking after the newsboys and also assisting for about two hours a day in issuing certificates to minors.

The attendance officers are to devote all of their time to the work of their office; to inquire into all cases of absence, juvenile vagrancy, persistent disobedience to the rules of the school, and unlawful detention from school; to report to parents all cases of suspension from school; to visit each school at least once each day unless otherwise directed by the superintendent; to prevent children from loitering about school premises to the annoyance and disturbance of the neighborhood; to prosecute in the name of the city, when so directed by the superintendent, all persons violating the public statutes relating to school attendance, and to assist in taking the school census when so directed.

They are to visit and inspect each month, while the public schools are in session, all factories, workshops, and mercantile establishments in their respective districts, and ascertain if there is any violation of the public statutes relating to the employment of children; to pay particular attention to the employment of minors who are required to attend evening school as a condition of their employment; to thoroughly acquaint themselves with all cases of neglected children coming to their knowledge in their several districts. When satisfied, after a full investigation and careful consideration, that the case is one in which court proceedings should be taken, to report to the superintendent and co-operate with him in his disposition of the case.

Attendance officers may be detailed by the superintendent to be present at any school building during the session of an evening school, or whenever the building is used for other than day school purposes, to assist in the preservation of order and in the protection of property in and about the building.

The following is a summary of the reports of the work of the attendance officers for the year from September, 1920, to September 1921.

The course in Appreciation of Music has gone beyond the experimental stage, and I propose to develop it along broader lines next year. Additional records will be necessary in order to extend the course. A small outlay will suffice.

A mandolin club has been established at Latin School. It meets after school hours.

I wish to express my appreciation of your many kindnesses during the year.

Respectfully submitted,

JOHN B. WHORISKEY,
Director of Music.

Number of absences investigated	16,388
Truancy, first offence	807
Truancy, third offence	151
Children found wandering about the streets not belonging to any school	105
Such children sent to school	98
Visits to mercantile and manufacturing establishments ..	481
Children employed without certificates	22

It is also the duty of these attendance officers to report to the schools all cases of contagious diseases which have been reported to the school department by the Board of Health. During the calendar year from January 1, 1921, to January 1, 1922, the following number of cases have been reported:

Influenza	38
Lobar Pneumonia	152
Chicken Pox	638
Diphtheria	227
Measles	908
Mumps	188
Scarlet Fever	258
Whooping Cough	412
German Measles	43
Infantile Paralysis	4
Cerebro-Spinal Meningitis	5
Total	<u>2,873</u>

The statistics of the private and parochial schools, obtained by one of the attendance officers, shows that there are eight parochial schools and five private schools in the city.

The number of pupils in the private and parochial schools on April 1, 1922, was as follows:

Parochial Schools	6,042
Private Schools	381
Total	<u>6,423</u>

SIGHT AND HEARING TESTS

In accordance with the laws of the state, the annual testing of the sight and hearing of the pupils was made this year as usual. All of the pupils were examined except those in the first primary grade and in the kindergartens.

The following is a summary of the tests in sight and hearing during the last four years:

	1918	1919	1920	1921
Number enrolled	15,270	15,528	15,440	16,447
Number defective in sight	1,503	1,585	1,674	1,916
Number defective in hearing	128	194	160	222
Number of parents notified	1,427	1,527	1,645	1,862

June 29, 1922.

ORDERED:

That the report of the Superintendent be accepted and adopted as the report of the School Committee for 1921.

AGNES M. WADDEN,
Secretary.

Cambridge, Massachusetts.

STATISTICS

FINANCES

For the Financial Year from April 1, 1921, to April 1, 1922.

RECEIPTS

Amount received from Tax Levy (\$6.40 per \$1,000 valuation)	\$869,378.48
Amount received from Tax on Intangibles, collected by state	83,865.30
Amount received by special act of Legislature (\$2.10 per \$1,000 valuation)	285,264.81
Unexpended balance from 1920-1921	27,286.37
Revenue received	29,373.74

Total amount available for support of schools \$1,295,168.70

EXPENDITURES

Salaries of teachers, all schools	\$948,844.08
Administrative salaries	54,545.96
General administrative expenses	9,522.35
Text-books and supplies	73,001.11
Transportation of pupils	813.60
Care of truants	93.14
Tuition to other cities	828.85
Janitor service	81,512.50
Janitor's supplies	2,346.30
Fuel and light	44,142.45
Repairs to buildings	46,116.64
Furniture and furnishings	1,747.23
Other school expenses	4,646.89
Refund on Minor's Licenses	45.75

Total expenditures \$1,268,206.85

Balance unexpended and carried forward to 1921-1922	\$26,961.85
Special teachers' salary appropriation carried forward	26,878.00

Net unexpended balance \$82.85

COST OF INSTRUCTION

From April 1, 1921, to April 1, 1922

Schools and Officers	Cost of Instruction	Average Number of Pupils for the Year Ending in June	Cost per Pupil
High and Latin School.....	\$171,684.28	1,932	\$88.86
Rindge Technical School.....	90,980.64	660	137.84
Grammar Schools.....	293,187.83	6,635	44.18
Primary Schools.....	213,699.98	5,329	40.10
Kindergartens.....	41,086.82	683	60.15
Open Air Classes.....	15,457.44	146	105.87
Substitute Teachers.....	28,324.76		
Continuation School.....	21,566.20		
Department of Practical Art.....	4,835.00		
Department of Music.....	6,160.00		
Department of Physical Education.....	5,600.00		
Manual Training and Pre-Vocational Work.....	18,237.42		
Teachers of Sewing.....	9,438.20		
Teachers of Cooking.....	2,759.40		
Teacher of Stammerers.....	1,656.00		
Teacher of Vision Class.....	1,656.00		
Teachers at Agassiz Museum.....	3,939.01		
Superintendent.....	6,000.00		
Assistant Superintendent.....	4,320.00		
Supervisor of Primary Schools.....	2,460.00		
Supervisor of Kindergartens.....	2,460.00		
Business Agent.....	3,000.00		
Pension for Agent.....	1,425.00		
Supt. of School Buildings and Grounds.....	2,500.00		
Clerks.....	9,603.41		
Porter.....	1,300.00		
Attendance Officers.....	12,817.55		
Total.....	\$976,154.94	15,385	\$61.43

Cost of Instruction in the Evening Industrial School.....	\$3,300.86
Cost of Instruction in the Evening Drawing School.....	140.00
Cost of Instruction in the Evening Elementary Schools.....	8,944.50
Cost of Instruction in the Evening Trade School for Girls.....	1,476.24
Cost of Instruction in the Evening High School.....	3,204.00

Total..... \$17,165.60

Cost of Instruction in Vacation Schools.....	\$5,448.00
Cost of Instruction in Americanization.....	\$3,865.50
Special Afternoon Session for Harvard.....	\$ 756.00

COST OF INSTRUCTION IN THE DAY SCHOOLS

Salaries of teachers, superintendents, supervisors, agent, clerks, and truant officers.

Year	Number of Teachers in December	Number of Pupils in December	Average Number of Pupils for Year Ending in June	Total Cost	Cost per Pupil
1913	485	15,909	15,258	\$469,292.44	\$30.75
1914	499	16,105	15,510	501,693.10	32.34
1915	523	16,232	15,581	545,686.00	35.02
1916	530	15,750	15,799	594,460.37	37.63
1917	519	15,659	15,202	610,050.79	40.13
1918	531	15,578	14,936	653,324.23	43.74
1919	518	15,731	14,487	722,974.99	48.31
1920	517	15,669	15,085	934,611.06	61.96
1921	538	16,536	15,385	976,154.94	63.44

COST OF THE DAY SCHOOLS

Cost of instruction, of text-books and supplies, of incidental expenses, of the care of truants, the care of schoolhouses, and of the transportation of pupils, but not including repairs.

Year	Number of Teachers in December	Number of Pupils in December	Average Number of Pupils for Year Ending in June	Total Cost	Cost per Pupil
1913	485	15,909	15,258	\$566,215.45	\$37.11
1914	499	16,105	15,510	607,875.97	39.19
1915	523	16,232	15,581	664,001.18	42.62
1916	530	15,750	15,799	725,161.39	45.90
1917	519	15,659	15,202	739,004.77	48.61
1918	531	15,578	14,936	837,308.55	56.05
1919	518	15,731	14,487	901,980.42	62.25
1920	517	15,669	15,085	1,190,899.07	78.96
1921	538	16,536	15,385	1,201,043.38	78.06

COST OF INSTRUCTION IN THE EVENING SCHOOLS

Year	Drawing	Industrial	High	Elementary	Director	Total
1916	\$678.00	\$1,829.50	\$3,502.50	\$8,540.00	.....	\$14,550.00
1917	432.00	1,936.50	3,215.00	7,917.00	.....	13,500.50
1918	*565.00	*2,716.00	2,268.50	5,910.00	\$300.00	*11,759.50
1919	**674.50	**4,992.50	3,491.50	8,109.00	.....	**17,267.50
1920	o818.50	o5,983.00	4,763.86	10,516.64	.....	o22,082.00
1921	140.00	†5,209.60	3,304.00	8,944.50	.....	†17,598.10

*This amount includes \$589.74 received from Smith-Hughes Fund.

**This amount includes \$880.19 received from Smith-Hughes Fund.

o " " " \$583.36 " " " " "

† " " " \$432.50 " " " " "

GENERAL STATISTICS

Population of Cambridge

1875.....	47,838	1905.....	97,434
1885.....	59,600	1910.....	104,391
1895.....	81,643	1915.....	108,822
1920.....	109,646		

School Census

Number of children in the city between five and sixteen years of age:	
boys, 10,834; girls, 11,118	21,952
Number in the city between five and seven.....	3,704
Number in the city between seven and fourteen.....	14,047
Number in the city between fourteen and sixteen.....	4,201
Number in the public schools between five and sixteen.....	14,576
Number in the private schools between five and sixteen.....	6,282
Number not attending school between five and sixteen.....	1,094

Schools and Classrooms

December, 1921

(a) High and Latin School.....	1	Classrooms in use.....	60
(b) Rindge Technical School.....	1	“ “ “	36
Continuation School.....	1	“ “ “	10
(c) Elementary Schools.....	27	“ “ “	317
Kindergartens.....	19	“ “ “	17
Evening Industrial School.....	1	“ “ “	11
Evening Drawing Schools.....	2	“ “ “	4
Evening High School.....	1	“ “ “	16
Evening Elementary Schools.....	6	“ “ “	51
Evening Trade School.....	1	“ “ “	8
Whole number of Day Schools.....			30
Whole number of classrooms for Day Schools.....			440
Whole number of Evening Schools.....			11
Whole number of classrooms for Evening Schools			90

(a) This school occupies two buildings and has assembly halls, libraries, lecture rooms, recitation rooms, chemical and physical laboratories, a drawing room and a gymnasium.
(b) This school occupies three buildings and has an assembly hall, drawing rooms, recitation rooms, chemical, electrical and physical laboratories, and rooms for various kinds of shop work.
(c) Sixteen of these schools have assembly halls.

NUMBER OF TEACHERS IN THE DAY SCHOOLS

December	High and Latin School	Rindge Technical School	Elementary Schools	Kinder-gartens	Continuation School	Directors and Special Teachers	Total
1917	88	30	346	33	0	16	519
1918	92	32	343	30	0	34	531
1919	87	35	332	31	0	33	518
1920	83	34	335	31	11	22	516
1921	88	40	338	30	11	31	538

ATTENDANCE AT ALL THE DAY SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1917	8,521	8,331	16,852	15,202	14,111	92.8
1918	8,619	8,033	16,652	14,509	13,290	91.5
1919	8,330	8,304	16,634	14,440	13,034	90.2
1920	8,459	8,091	16,550	15,085	13,710	90.8
1921	8,516	8,228	16,744	15,385	14,092	91.5

ATTENDANCE AT THE HIGH AND LATIN SCHOOL

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1917	748	1,613	2,361	2,142	2,016	93.7
1918	859	1,431	2,290	2,001	1,887	94.2
1919	622	1,525	2,147	1,908	1,757	92.2
1920	668	1,369	2,037	1,909	1,744	91.3
1921	700	1,327	2,027	1,932	1,845	95.4

ATTENDANCE AT THE RINDGE TECHNICAL SCHOOL

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1917	694	608	566	93.1
1918	706	562	530	94.3
1919	697	585	544	92.9
1920	724	673	630	93.6
1921	734	660	608	92.1

ATTENDANCE AT THE GRAMMAR SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1917	3,838	3,597	7,435	6,892	6,489	94.1
1918	3,785	3,534	7,319	6,518	6,097	93.5
1919	3,620	3,592	7,212	6,711	6,145	91.5
1920	3,637	3,606	7,243	6,671	6,192	92.8
1921	3,563	3,602	7,165	6,726	6,227	92.5

ATTENDANCE AT THE PRIMARY SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1917	2,792	2,716	5,508	4,927	4,510	91.5
1918	2,820	2,626	5,446	4,777	4,253	89.0
1919	2,933	2,745	5,678	4,558	4,049	88.8
1920	2,945	2,677	5,622	5,132	4,595	89.5
1921	3,079	2,815	5,894	5,384	4,849	90.0

ATTENDANCE AT THE KINDERGARTENS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per cent of Attendance
	Boys	Girls	Total			
1917	449	405	854	633	530	83.7
1918	449	442	891	650	523	80.4
1919	458	442	900	678	539	79.9
1920	485	439	924	700	549	78.4
1921	440	484	924	683	563	82.4

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE HIGH AND LATIN SCHOOL

Year	Boys	Average Age	Girls	Average Age
1917 Sept.	236	14 years 1 month	528	14 years 2 months
1918 Sept.	189	14 years 1 month	490	14 years 3 months
1919 Sept.	216	14 years 0 month	427	14 years 3 months
1920 Sept.	242	14 years 2 months	500	14 years 3 months
1921 Sept.	334	14 years 3 months	625	14 years 2 months

NUMBER OF PUPILS GRADUATED FROM THE HIGH AND LATIN SCHOOL

Year	Boys	Average Age	Girls	Average Age
1917	78	18 years 0 months	167	17 years 10 months
1918	67	16 years 6 months	147	16 years 7 months
1919	65	17 years 10 months	181	17 years 9 months
1920	94	17 years 5 months	173	17 years 7 months
1921	95	17 years 6 months	174	17 years 3 months

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE
RINDGE TECHNICAL SCHOOL, WITH THE NUMBER OF
GRADUATES

Year	Admitted	Average Age	Graduated in June	Average Age
1917 Sept.	303	14 years 4 months	67	18 years 6 months
1918 Sept.	306	14 years 2 months	46	17 years 9 months
1919 Sept.	328	14 years 3 months	57	18 years 2 months
1920 Sept.	336	14 years 5 months	51	17 years 9 months
1921 Sept.	454	14 years 10 months	54	18 years 2 months

NUMBER OF PUPILS GRADUATED FROM THE GRAMMAR SCHOOLS

Year	Boys	Average Age	Girls	Average Age
1917 June	559	14 years 6 months	531	14 years 2 months
1918 June	400	14 years 4 months	407	14 years 4 months
1919 June	408	14 years 6 months	399	13 years 7 months
1920 June	485	14 years 2 months	455	14 years 3 months
1921 June	467	13 years 10 months	515	14 years 2 months

NUMBER OF PUPILS COMPLETING THE PRIMARY COURSE OF
STUDY

Year	Boys	Average Age	Girls	Average Age
1917	676	9 years 4 months	736	9 years 5 months
1918	603	9 years 3 months	593	9 years 2 months
1919	595	9 years 7 months	588	8 years 9 months
1920	608	9 years 7 months	623	9 years 4 months
1921	683	9 years 6 months	700	9 years 4 months

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE GRAMMAR SCHOOLS

Year	In 4 Years or Less	In 5 Years	In 6 Years	In More Than 6 Year
1917	13 per cent	57 per cent	26 per cent	4 per cent
1918	16 per cent	62 per cent	18 per cent	4 per cent
1919	18 per cent	64 per cent	15 per cent	3 per cent
1920	11 per cent	61 per cent	19 per cent	9 per cent
1921	10 per cent	65 per cent	22 per cent	3 per cent

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE PRIMARY SCHOOLS

Year	In Less Than 3 Years	In 3 Years	In 4 Years	In More Than 4 Years
1917	5 per cent	58 per cent	27 per cent	10 per cent
1918	5 per cent	57 per cent	33 per cent	5 per cent
1919	4 per cent	51 per cent	31 per cent	14 per cent
1920	3 per cent	56 per cent	28 per cent	13 per cent
1921	3 per cent	52 per cent	31 per cent	14 per cent

NUMBER OF PUPILS IN THE HIGH AND LATIN SCHOOL, DECEMBER, 1921

Year	Boys	Girls	Total	Per cent
Post Graduate.....	11	24	35	.0221
Twelfth.....	107	208	315	.1342
Eleventh.....	158	251	409	.170
Tenth.....	237	408	645	.27
Ninth.....	342	624	966	.41
Totals.....	855	1,515	2,370	

NUMBER OF PUPILS IN THE RINDGE TECHNICAL SCHOOL,
DECEMBER, 1921

Year	Boys		Per cent
Twelfth.....	92	This school is for boys only. It became a part of the public school system January 1, 1899.	.110
Eleventh.....	121		.144
Tenth.....	223		.266
Ninth.....	402		.480
Total.....	838		

NUMBER OF PUPILS IN THE GRAMMAR SCHOOLS, DECEMBER, 1921

Year	Boys	Girls	Total	Per cent
Eighth.....	541	603	1,144	.169
Seventh.....	607	658	1,265	.187
Sixth.....	687	655	1,342	.198
Fifth.....	741	712	1,453	.214
Fourth.....	787	787	1,574	.232
Total.....	3,363	3,415	6,778	

NUMBER OF PUPILS IN THE PRIMARY SCHOOLS, DECEMBER, 1921

Year	Boys	Girls	Total	Per cent
Third.....	805	786	1,591	.291
Second.....	938	853	1,791	.327
First.....	1,070	1,018	2,088	.382
Total.....	2,813	2,657	5,470	

NUMBER OF PUPILS AND TEACHERS IN THE KINDERGARTENS

Year	Boys	Girls	Total	Number of Teachers
1917	423	407	830	33
1918	356	351	707	32
1919	419	382	801	31
1920	368	402	770	31
1921	344	400	744	30

NUMBER OF AGE AND SCHOOLING CERTIFICATES ISSUED

1916	1917	1918	1919	1920	1921
2,354 *7,163	3,347 *7,226	4,229 *7,967	3,004 *5,749	2,622 *5,452	1,629 *4,899

*Issued to minors over sixteen years of age.

SUMMARY

Number of pupils belonging in December, 1921

Number of pupils in the High and Latin School.....	2,370
Number of pupils in the Rindge Technical School.....	838
Number of pupils in the Grammar Grades.....	6,778
Number of pupils in the Primary Grades.....	5,470
Number of pupils in the Kindergartens.....	744
Number of pupils in the Open Air Classes.....	128
Number of pupils in Special Classes.....	82
Number of pupils in the Ungraded Classes.....	126

Number of pupils in the public schools, December, 1921.....	16,536
Number of pupils in the public schools, December, 1920.....	15,669

Increase of pupils, December, 1921.....	867
---	-----

Increase of pupils, 1912.....	174
Increase of pupils, 1913.....	407
Increase of pupils, 1914.....	196
Increase of pupils, 1915.....	127
Decrease of pupils, 1916.....	482
Decrease of pupils, 1917.....	91
Decrease of pupils, 1918.....	81
Increase of pupils, 1919.....	153
Decrease of pupils, 1920.....	62
Increase of pupils, 1921.....	867

NUMBER OF PUPILS REGISTERED IN THE EVENING DRAWING SCHOOLS, WITH THE AVERAGE ATTENDANCE

	1918-1919	1919-1920	1920-1921	1921-1922
Number registered	59	87	53	61
Average attendance	21	36	27	36

NUMBER OF PUPILS REGISTERED IN THE EVENING INDUSTRIAL SCHOOL, WITH THE AVERAGE ATTENDANCE

	1918-1919	1919-1920	1920-1921	1921-1922
Number registered	257	360	343	349
Average attendance	93	134	158	190

NUMBER OF PUPILS REGISTERED IN THE EVENING HIGH SCHOOL, WITH THE AVERAGE ATTENDANCE

	1918-1919	1919-1920	1920-1921	1921-1922
Number registered	523	490	428	420
Average attendance	234	241	221	246

NUMBER OF PUPILS REGISTERED IN THE EVENING ELEMENTARY SCHOOLS, WITH THE AVERAGE ATTENDANCE*

	1918-1919	1919-1920	1920-1921	1921-1922
Number registered	968	1,428	1,605	1,437
Average attendance	492	631	817	837

*Including the Evening Trade School for Women.

TABULAR VIEW
Teachers in Service, April, 1922

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
High and Latin School			
Leslie L. Cleveland	Head Master	Williams College, A.B.	Jan. 1910
Chester M. Bliss	Master	Amherst College, A.B., A.M.	Sept. 1907
Thomas L. Bramhall	"	Harvard University, A.B.	Sept. 1910
Timothy F. Downey	"	Harvard University, A.B.	Sept. 1912
Alice C. Baldwin	Teacher	Wellesley College, A.B.	Sept. 1895
Margaret M. Ball	"	Lawrence University, Wis., A.B.	Feb. 1912
Edith T. Bates	"	Framingham Normal School (Course at Simmons College)	Sept. 1909
Margaret S. Bradbury	"	Radcliffe College, A.B.†	Jan. 1902
Alice M. Brown	"	Normal School of Gymnastics. (Special Courses)	Sept. 1910
Natalie A. Browning	"	Radcliffe College, A.B.‡	Sept. 1916
Katharine A. Burke	"	(Special Courses in Sewing, etc.)	Oct. 1907
Anna P. Butler	"	Trinity College, Washington, D. C. A.B.‡	Sept. 1909
George H. Cain	"	Potomac College, A.B.	Sept. 1909
Ethel E. Carr	"	Radcliffe College, A.B.	Sept. 1908
Grace M. Cassiday	"	Brockton Business College. (Courses at Simmons College and Boston University)	Sept. 1916
Alice D. Chamberlain	"	Radcliffe College, A.B.	Sept. 1900
Caroline Close	"	Cambridge Training School. (Special Courses)	Nov. 1874
Bertha L. Cogswell	"	Boston University, A.B., A.M.	Jan. 1894
Helen B. Colson	Permanent Substitute	Radcliffe College, A.B.	Sept. 1921
Joseph A. Coolidge	Teacher	Harvard University, A.B., A.M.	Mar. 1892
Grace A. Coyle	"	Radcliffe College, A.B.	Sept. 1912
Gertrude H. Crook	"	Boston University, A.B. Rad- cliffe College, A.M.	Sept. 1896
Grace L. Deering	"	Maine Seminary. (Courses abroad and at Radcliffe College)	Feb. 1892
Grace E. Dennett	"	Radcliffe College, A.B., A.M. Simmons College, S.B.	Sept. 1907
Cecil T. Derry†	"	Harvard University, A.B., A.M.	Oct. 1905
Mary L. Diehl	"	English High School. (Attended College of Commerce, Sim- mons College and Harvard Summer School)	April 1915
Esther S. Dodge	"	Boston University, A.B.	Oct. 1897
Ellen C. Doherty	"	Radcliffe College, A.B.‡	Sept. 1915
Sarah Dolan	"	Radcliffe College, A.B.	Sept. 1916
Agnes G. Donovan	"	Bryant & Stratton Commercial College (Courses at Simmons and Boston University)	Sept. 1921
Elizabeth M. Driscoll	"	Boston University, A.B.	Mar. 1914

*On leave of absence.

†Resigned June, 1911, and reappointed September, 1912.

‡Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
High and Latin School Con.			
Helena Dunn	Permanent Substitute Teacher	Fitchburg Normal School, Rad- cliffe College	Nov, 1921
Lillian E. Edgerly		Farmington, N. H., High School. (Bradford Academy, 1 year, Western College, Ohio, 1 year. Bryant & Stratton's Business College)	Sept. 1916
Ruth B. Elliott	"	Iowa State Normal School. (Bryant and Stratton's Busi- ness College)	Sept. 1916
Sara L. Fisher	"	Smith College, A.B.	Sept. 1910
Elizabeth B. Flanders	"	Framingham Normal Art School. (Courses at Radcliffe)	Sept. 1905
Margaret E. Ford.	"	Radcliffe College A.B. (Special Courses)	Oct. 1921
Louise A. Forrest	"	Boston University, A.B.	Feb. 1913
Florence H. French	"	Radcliffe College, A.B.	Nov. 1909
George H. Glasheen	"	Fitchburg Business College. Boston University, B.B.A.	Oct. 1914
Josephine V. Hagarty	"	Chicopee Normal School, Bay Path Commercial Institute. (Courses at Harvard and Simmons Colleges)	Sept. 1918
Mary C. Hardy	"	Smith College, A.B.	Dec. 1891
Lillian R. Hartigan	"	Emerson College of Oratory†	June 1915
Elizabeth L. Huling	"	Radcliffe College, A.B., A.M.	Sept. 1905
Horace E. Jacobs	"	Brown University, A.B., A.M. (Medical School, 1 year)	Oct. 1915
Elsie M. Kellaway	"	Simmons College, B.S.	Oct. 1921
Sarah W. Kelly	"	Wellesley College, A.B.	Feb. 1911
Maud A. Lawson	"	Radcliffe College, A.B.	Sept. 1892
James H. Leonard	"	Harvard University, A.B. (Law School, 1 year. Graduate School, 1 year)	Sept. 1915
Katherine B. Lyons	"	Radcliffe College, A.B.	Sept 1915
Ethel M. MacLeod	"	Radcliffe College, A.B.†	Mar. 1906
Gertrude M. Mason	"	Gorham, Me., Normal School. Bryant and Stratton's Com. Col., Springfield, Mass.	Feb. 1912
Inez McCaffrey	"	Radcliffe College, A.B. (Post-graduate course at Brown University)	Sept. 1915
Mary R. McCarthy**	"	Radcliffe College, A.B.	Dec. 1914
Beatrice M. McDonald	"	Salem Normal School, Commer- cial Course, 3 years	Sept. 1916
Ethel G. McElroy	"	Radcliffe College, A.B., A.M.	Sept. 1911
Henrietta E. McIntire	"	Radcliffe College, A.B., A.M.	Sept. 1891
Josephine A. McLaughlin	"	Posse Normal School of Gym- nastics. (Sargent Normal School of Gymnastics, 1 yr.)	Oct. 1916

**Was clerk in school from September, 1912.

†Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
High and Latin School, Con.			
Esther L. Miles	Teacher	Mt. Holyoke College, A.B.	Sept. 1921
Esther E. Morse	"	Boston University, A.B.	Sept. 1915
Helen F. Morton	"	Massachusetts Normal Art School	Apr. 1914
Mary Moulton	"	(Attended Wellesley College 3 years. Special Courses and studied abroad)	Sept. 1890
Mary E. Murray	"	Radcliffe College, A.B.	Sept. 1908
Louisa P. Parker	"	Westfield Normal School. (Courses at Radcliffe Col- lege)	Mar. 1881
Jane G. Ricker	"	Cambridge Latin School. (Rad- cliffe College, 2 years.)	Sept. 1915
Lillian C. Rogers	"	(Special Courses. Studied abroad)	Sept. 1893
Eva M. Ruggli	"	Boston University, A.B.	Feb. 1912
Hilda Russell	"	Radcliffe College, A.B.	Sept. 1912
Ethel V. Sampson	"	Wellesley College, A.B. Kinder- garten Training School °	Sept. 1899
Albert Sateriale	"	Radcliffe College, A.B.	Jan. 1921
Caroline A. Sawyer	"	Harvard University	Sept. 1886
Adele Schroder	"	Boston University, A.B., Rad- cliffe College, A.M.	Feb. 1916
John J. Sheehan	"	(Radcliffe College, 2 years) (Studied abroad)	Sept. 1920
Madeleine L. Slade	"	Bridgewater Normal School	Sept. 1916
Florence W. Smith	"	Boston College	Sept. 1897
Martha R. Smith	"	Salem Normal School. (Simmons College Summer School)	Jan. 1882
Delia M. Stickney	"	Radcliffe College, A.B.	Sept. 1888
Jennie S. Spring	"	Boston Normal School. (Courses at Harvard and private courses)	Mar. 1886
Annie F. Stratton	"	Institute of Technology, S.B.	Sept. 1899
*Blanche E. Townsend	"	Smith College, A.B.	Sept. 1900
Agnes L. Tracy	"	Radcliffe College, A.B.	Oct. 1904
Anna M. Walsh	"	Salem Normal School. (Spécial Courses)	April 1914
Winifred A. Waters	"	Cambridge High School. (Rad- cliffe College, 3 years)	Sept. 1914
Mabel D. Watson	"	Smith College, A.B. °	Sept. 1901
Lillian A. Welsh	"	Boston University, A.B. °	Oct. 1921
Alice S. Willoughby	"	Radcliffe College, A.B.	Mar. 1914
Madeleine Wood	"	Bay Path Institute	Sept. 1907
	"	Mass. Normal Art School. (Radcliffe College, 1 year	
	"	Radcliffe College, A.B. °	

°Attended the Wellington Training School.

*On leave of absence

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
High and Latin School —Con. Bessie L. Forbes	Dietitian	Miss Farmer's School of Cook- ery. (Courses at Columbia University and Simmons College)	Sept. 1916
Leander A. MacDonald	Teacher- Coach	Bridgewater Normal School. Harvard College, 1 year. Tufts College, 1 year	Sept. 1918
Katherine S. Carroll	Secretary	Bryant and Stratton's Commer- cial College	Nov. 1914
Rosemary Hogan	Secretary	Cambridge Latin School. Rad- cliffe College, 3 years	Mar. 1920
Rindge Technical School John W. Wood, Jr. James F. Conlin Frank H. Banks Caroline L. Blake	Head Master Master Teacher "	Harvard University, S.B. Harvard University, A.B., A.M. Common Schools Wheaton College, A.B. (Special Courses)	Jan. 1899 Feb. 1905 Sept. 1921 Sept. 1894
Ingolf V. Bockmann	"	Norway Technical School. (Attended Sloyd Schools)	Feb. 1911
J. David Bourgeois	"	Attended St. Francis Xaver College, 2 years; Alexander Hamilton Institute, 3 years	Oct. 1921
Edgar R. Breed	"	Mass. Normal Art School	Nov. 1912
Vincent P. Burke	Permanent Substitute Teacher	Boston College, A.B.	Apr. 1921
Mary H. Cunningham	"	Simmons College	Sept. 1918
Joseph B. Davison†	"	Malden High School. (Special Courses)	April 1909
Myra I. Ellis	"	Cambridge Training School. (Berlin University)	Feb. 1878
William M. Fraser	Permanent Substitute Teacher	Colburn Classical Institute, 1 year; Colby College, 2 years	Apr. 1921
John J. Gately	"	Cambridge High School	Sept. 1921
Walter R. Gilbert	"	Somerville High School. (Special Courses)	Oct. 1919
Kenneth W. Goepper	Permanent Substitute Teacher	Harvard College, A.B., Harvard Law School	Oct. 1921
George H. Gohlke	"	University of Wisconsin, B.L.	Sept. 1911
Walter Gomes	"	Rindge Technical School (Special Courses)	Mar. 1919
Evan W. Griffiths	"	Harvard University, A.B., A.M.	Sept. 1903
John C. Hall	"	Boston University, S.B.	Sept. 1908
Lawrence A. Howard	"	Worcester Polytechnic Insti- tute, B.S. (Special Courses)	Sept. 1921
Charles C. Jones	"	Warner, N. H., High School	Sept. 1911
Francis P. Jordan	"	Attended Waltham High School	Oct. 1919
Lester W. Ladd	"	Harvard University, B.A.S.	Sept. 1910

* On leave of absence

†Temporary teacher from October, 1918.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Rindge Technical—Con.			
Charles A. Linehan	Teacher	Harvard University, S.B.	Sept. 1914
Henry C. Lynch	"	Harvard University, University Lyons, France	Sept. 1920
Edward R. Markham	"	Wesleyan Academy. (Courses in Mechanical Engineering)	Sept. 1903
James T. McElligott	"	Harvard University, A.B., A.M. (Division of Education)	Sept. 1915
William P. McLaughlin	Permanent	Fordham University, A.B.	Oct. 1921
Saville Moore	Substitute	Common Schools	Apr. 1921
Jane O. Mosher	Teacher	Boston University, A. B. °	Sept. 1911
William Mullins	"	University of Maine, A.B.	Sept. 1916
John Y. Murray	"	Prince Wales College (Special Courses)	Sept. 1921
George F. Odenwald	"	Boston College, A.B.	Sept. 1921
Abbott O. Paine	"	Rindge Manual Training School	Sept. 1915
Otis A. Philbrick	"	Mass. Normal Art School	Sept. 1911
Leverett L. Preble	"	(Private Instruction and Shop Experience. Special Courses)	Sept. 1910
Charles H. Richert	"	Boston Normal Art School	Dec. 1905
Gertrude B. Rogers	"	(Attended Colby College, 2 years) Tufts College, 2 years, A.B.	Feb. 1911
Edward A. Sullivan	"	Boston College, A. B., A. M.,	Sept. 1921
James G. Telfer	"	Common Schools	June 1889
John M. Tobin	Permanent	Boston College, A.B.	Oct. 1921
Anna R. Ward	Substitute		
Marion L. Pike	Teacher	Indiana State University A. B.	Sept. 1909
	Secretary	Cambridge Latin School	Sept. 1909
Agassiz School			
H. Warren Foss	Master	Colby College, A. B. (Courses at Harvard)	Sept. 1904
Lillian M. Cuddy	Master's Asst.	Salem Normal School °	Dec. 1904
Edith Waugh	8	Bridgewater Normal School (Special Courses)	April 1921
Susan L. Senter	7	Medway High School °	Sept. 1898
Marietta L. McNamara	6-7	Cambridge High School. (Attend- ed Salem Normal School)	Nov. 1912
Ada M. Litchfield	6	Boston Normal School °	May 1891
Clara W. Ruggli	5	Bridgewater Normal School. (Special College Course) °	Sept. 1900
Frances W. Dawson	4	Bradford Academy. (Special Courses)	Sept. 1902
Lucy A. Roper	3	Salem Normal School °	Sept. 1907
Rose M. Hill	2-3	Kindergarten Training School °	Sept. 1911
Margaret C. Fitzgerald	2	Mass. Normal Art School	Dec. 1916
Grace C. Stedman	1	Cambridge High School. Kin- dergarten Training School	May 1896

°Attended The Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also other Courses)	Date of Appoint- ment
Boardman School			
Elizabeth J. Karcher	Principal	Cambridge Training School. (Special Courses)	May 1881
Anna M. Vaughan	3	Lowell Normal School	Sept. 1920
Sybil L. M. Cronin	3	Salem Normal School°	Sept. 1912
Eileen R. Marshall	2	Framingham Normal School	April 1917
Malvina M. Joslin	2	Northfield, Vt., Normal School. (Hyannis Normal School. Summer Course)°	May 1891
Mary C. Ward	2	Salem Normal School°	Mar. 1911
Mabel E. Blake	1	North Andover High School. (Salem Normal School, 1 year)	Jan. 1892
Mary K. Kelley	1	Framingham Normal School°	Nov. 1915
Gertrude Gorman	1	Salem Normal School	Oct. 1919
Ellis School			
Ernest Libby	Master	Bridgewater Normal School. (Chicago University)	Sept. 1906
Katharine M. Greene	Master's Asst.	Salem Normal School°	Sept. 1904
Adelaide G. Bunker	8	Castine, Me., Normal School. (Attended Bridgewater Nor- mal School)	Nov. 1902
Mary A. Stephenson	8	Bridgewater Normal School°	Sept. 1898
Florence M. Dudley	7	Salem Normal School°	Dec. 1897
Mary T. Cashman	7	Salem Normal School°	Nov. 1915
Mary A. Macklin	7	Salem Normal School°	Dec. 1902
Ellen T. O'Keefe	6	Boston Normal School, (College Courses)	Sept. 1903
Katharine F. Leahy	6	Salem Normal School°	Sept. 1916
M. Alice Mahoney	6	Salem Normal School	Sept. 1916
Alice G. Dacey	5	Salem Normal School°	Jan. 1909
Ethel K. Barry	4	Fitchburg Normal School	Sept. 1921
Katharine L. Dolan	Pre-vocat'n'l	Salem Normal School	Nov. 1898
Felton School			
C. Florence Smith	Prin. 3	Boston Normal School. (Har- vard Summer School)°	Jan. 1888
Annie M. Street	3	Westfield Normal School. (At- tended Summer Institute)	Sept. 1889
Marcia R. Bowman	2	Framingham Normal School°	Sept. 1895
Sarah L. O'Reilley	1	Salem Normal School°	Jan. 1915
Carrie H. Smith	1-2	Cambridge Training School	Jan. 1875
Agnes C. Doherty	Open Air	Kindergarten Training School°	Sept. 1913
Marguerite E. Brenner	Open Air	Lowell Normal School	Nov. 1918

°Attended the Wellington Training School

†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Fletcher School			
George B. Colesworthy	Master	Bowdoin College, A.B., Harvard University, A.B.	Sept. 1903
Nellie A. Coburn	Master's Asst.	Lowell High School. (Attended Private Seminary)	Sept. 1901
Emma G. Wentworth	7	Salem Normal School°	Oct. 1902
Alice M. Chamberlain	7	Salem Normal School°	Sept. 1913
Mary I. Chapin	6	(Attended Indiana Normal School)	Oct. 1904
Helena M. Maguire	5	Salem Normal School°	Jan. 1915
Blanche M. Gould	4	Colby Academy, N. H. (Boston University, 2½ years)°	Oct. 1904
Elmira F. Hall	4	Cambridge High School°	May† 1897
Gertrude M. Baker	4	Radcliffe College, A.B.°	Sept. 1905
Martha B. Perkins	3	Salem Normal School	Sept. 1904
Mae E. Sullivan	3	Lowell Normal School	Nov. 1919
Catherine Culhane	2	Kindergarten Training School°	Jan. 1915
Eva A. Taylor	2	Cambridge High School°	May 1886
Margaret E. Jones	1	Kindergarten Training School°	Sept. 1913
Ethel M. Cooper	1	Lowell Normal School	Nov. 1915
Rebecca C. Feeny**	1	Salem Normal School	Sept. 1919
Eleanor E. O'Brien	Ungraded	Salem Normal School°	Sept. 1909
Gannett School			
Mary A. Rady	Prin. 2	Normal School and School of Expression. (Special Courses)	Sept. 1880
Elizabeth A. Carroll	3	Framingham Normal School°	Jan. 1915
Annie M. Billings	2-1	Cushing Academy. (Attended Quincy Training School)	May 1893
Julia V. Looney	2	Salem Normal School	Dec. 1919
Hilda A. Anderson	1	Salem Normal School	Sept. 1920
Gore School			
Mary E. Mulloney	Principal	Cambridge Training School. (Special Courses)	Sept. 1878
Catherine L. Dinneen	3	Salem Normal School°	Dec. 1908
Anastasia R. Peters	3	Newton High School. (Special Courses)°	Oct. 1892
Lillian M. Brown	2	Lowell Normal School°	Nov. 1918
Agnes M. Harrington	2	Salem Normal School	Oct. 1919
Julia G. McHugh	2	Salem Normal School°	Oct. 1894
Anna E. Callahan	1	Salem Normal School	Sept. 1883
Marguerite F. Doherty	1	Lowell Normal School°	Sept. 1913
Katharine A. Hegarty	1	Coburn, Me., Classical Institute. (Special Courses)	Sept. 1896
Irene F. Kline	1	Lowell Normal School	Jan. 1920
Frances M. Donovan	Ungraded	Kindergarten Training School°	Nov. 1912

°Attended the Wellington Training School

†Taught previous to this and resigned.

**Assi_ned to the factory at the American Rubber Co.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Haggerty School Raymond A. FitzGerald	Master	Harvard University, S. B., graduate School Courses, Division of Education, Harvard University, 3 years	Sept. 1913
Clintina E. Curtis	Master's Asst.	Plymouth, N. H., Normal School	Dec. 1907
Alice C. Sullivan	7	Fitchburg Normal School°	Nov. 1915
Margaret G. Cronin	6	Fitchburg Normal School°	Feb. 1917
Katharine A. Brennan	5	Bridgewater Normal School	Nov. 1918
Julia M. Davis	4	Baltimore High School. (Maryland Normal School, 1 year)	May 1900
Evelyn M. Twohig	3	Salem Normal School	Oct. 1921
Mary A. O'Connor	2	Salem Normal School°	Nov. 1915
Harriet R. Harrington	1	St. Johnsbury Academy. (Special Courses)	Sept. 1897
Anna G. Lynch	1	Lowell Normal School	Jan. 1919
Harvard School William L. MacGregor	Master	Richmond, N. S., High School. (Attended Hyannis Normal School)	Sept. 1906
Katharine L. Carr	Master's Asst.	Potsdam, N. Y., Normal School	Nov. 1901
Marcia E. R. Hardy	8	Farmington, Me., Normal School (Maine Seminary, 2 terms)	Sept. 1916
Marguerite L. Harris	8	Framingham Normal School°	April 1914
Addie L. Bartlett	7	Castine, Me., Normal School (Special Courses at Harvard)	Sept. 1890
Katherine F. Smith	7	Bridgewater Normal School°	Sept. 1912
Annie B. Lowell	7	Portland, Me., Normal School	Jan. 1898
Frances Fabyan	6	Cambridge Training School	April 1878
Elizabeth L. Setchell	6	Salem Normal School	Sept. 1888
Nina L. Kendall	6	Randolph, Vt. Normal School	Sept. 1909
Grace I. Nelligan	5	Salem Normal School°	Sept. 1911
Esther M. Spaulding	5	Framingham Normal School°	Nov. 1918
Lillian B. Dorney	5	Framingham Normal School	Jan. 1920
Helen M. Welch	4	Lowell Normal School	Nov. 1918
May M. Strong	4	Gloucester High School. Gloucester Training School. (Special Course in Boston)	May 1917
Kathryn A. Biggane	4	Lowell Normal School	Nov. 1918
H. Maud Maclean	Special	University of New Brunswick, B.A.	Mar. 1896
Carolyn E. Macdonald	Special	Salem Normal School°	Jan. 1909
Houghton School James E. White	Master	Bridgewater Normal School. Sloyd School. (Special Courses)	Jan. 1906
R. Emily Penney	Master's Asst.	Salem Normal School° (Special Courses)	June 1893
Helene M. Seils	7	Salem Normal School°	Sept. 1909
Anna T. Shea	6	Salem Normal School	Sept. 1920
Hattie Shepherd	6	Cambridge Training School. (Special Courses)	Sept. 1882

°Attended the Wellington Training School.

†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint ment
Houghton School, Con.			
Katharine F. Callahan	5	Salem Normal School°	Nov. 1903
Mary L. Edmunds	5	Salem Normal School°	Jan. 1915
Grace S. Beckwith	4	Westfield Normal School. (Special Courses)°	Sept.†1904
Edith M. Snow	4	Lowell Normal School	Nov. 1920
Anastasia Donovan	3	Salem Normal School	Sept. 1919
Millie A. Isaac	2	Salem Normal School. (Evening Freehand Course, Massachu- setts Normal Art School, 2 years)°	Sept. 1909
Betty B. Cohen	2	Lowell Normal School,	Oct. 1921
Elizabeth M. Kline	1	Salem Normal School°	Sept. 1912
Elizabeth D. Pierce	1	Kindergarten Training School (Special Courses)°	Sept. 1913
Josephine G. Lynch	Special	Lowell Normal School	Nov. 1919
Kelley School			
John F. Lynch	Master	Boston Normal School, Tufts College, A. B. (Special Courses)	Feb. 1922
Catharine A. McLean	Master's Asst.	Salem Normal School°	Oct. 1899
Emma J. Houlahan	8	Salem Normal School°	Sept. 1903
Florence E. Hunter	7	Castleton, Vt., Normal School (Troy Conference Academy, 3 years. Summer Schools. Boston University Exten- sion Courses)	Feb. 1900
Esther D. Paul	7	Boston University, A.B.°	Oct. 1899
Ellen A. Kidder	6	(Teachers' Courses and Sum- mer Courses at Harvard)°	Oct. 1890
Maude M. Dutton	6	Bridgewater Normal School°	Oct. 1899
Fannie M. Field	5	Bridgewater Normal School	Oct.†1921
Agnes M. McLean	5	Framingham Normal School	Nov. 1918
Winifred A. Briggs	4	Gorham, Me., Normal School (Special Courses)	Sept. 1921
Anna W. Browning	3	Plymouth, N. H., Normal and Training School. (Special Courses at Radcliffe)	Nov. 1917
Eva G. Oakes	3	Warren High School. (Martha's Vineyard Summer School, 3 years)°	Oct. 1898
Helena O'Loughlin	2	Lowell Normal School°	Nov. 1915
Ellen T. Carroll	2-3	Kindergarten Training School°	Sept. 1907
Elizabeth M. McCann	2	Salem Normal School°	April 1917
Olive L. Cook	1	Framingham Normal School. (Summer Courses)	April 1905
Ethel V. Igo	1	Lowell Normal School°	Oct. 1921
Mary A. Maguire	1	Salem Normal School°	Sept. 1913
Mary E. Regan	Special Class	Salem Normal School°	Oct. 1899

°Attended the Wallington Training School.

†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Lowell School			
Margaret Kidd	Prin. 4	Cambridge Training School. (Special Courses)	Sept. 1880
Catherine A. McGuinness	3-2	New Bedford Normal and Train- ing School (Special Courses)	Dec. 1921
Eliza F. McLean	1	Sudbury High School. Private Business School. (Hyannis Normal School, 2 years)	April 1918
Merrill School			
Louise W. Harris	Principal	Cambridge Training School. (Special Courses)	Jan. 1876
Katharine Pendergast	3	Warren High School°	Sept. 1909
Nellie F. Walker	3	Kennebunk, Me., High School. (Attended Com. College)	Sept. 1899
Margaret F. Dwyer	2	Kindergarten Training School	Feb. 1914
Margaret C. Boland	2	Bridgewater Normal School°	Dec. 1916
Marion B. Magwire	1	Framingham Normal School°	June 1894
Gertrude S. Thayer	1	Salem Normal School°	Sept. 1903
Margaret O'Reilly	1	Salem Normal School	Nov. 1919
Morse School			
John J. Salmon	Master	Holy Cross College, A.B. Clark University, A.M.	Sept. 1916
Elizabeth H. Richards	Masters Asst.	Robinson Seminary, N. H.°	Jan. 1899
Anna A. O'Connell	8	Bridgewater Normal School. (University and Private Courses)°	Sept. 1900
Winifred L. Kinsley	7	Boston Normal School°	Sept. 1888
Edith M. Carman	7	Salem Normal School°	Dec. 1904
Lucy M. Soulee	6	Everett High School. (Boston University and Private Courses, Dartmouth College Summer School)	Sept. 1893
Alice E. May	6	Bridgewater Normal School	Oct. 1893
Mary E. Warren	5	Lawrence Academy, Groton. (Hyannis Normal and N. Adams Training Schools)	Jan. 1902
Mary H. Manning	5	Salem Normal School°	Sept. 1913
Ida J. Holmes	4-3	R. I. Normal School. (Summer Courses and Private Les- sons)	Sept. 1895
Anna F. Kelley	4	Framingham Normal School	Nov. 1918
Flora E. Parker	4	Salem Normal School	Sept. 1921
Elizabeth J. Baldwin	3	Boston Normal School°	Jan. 1886
Christina R. Denyven	3	Bridgewater Normal School. (Special Courses)°	Jan. 1888
Agnes J. Moran	2	Salem Normal School°	Sept. 1909
Jane J. White	2	Fitchburg Normal School	Sept. 1920
Anna L. P. Collins	1	(Attended Plymouth, N. H., Normal School)	Sept. 1893
Alice A. Harrington	1	Salem Normal School°	Nov. 1915

°Attended the Wellington Training School.

†Taught previous to this and resigned.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Parker School			
Mary A. Knowles	Principal	Billerica High School. (Special Courses)	Sept. 1897
Cordelia C. Rowe	3	Cambridge English High School. (Courses at Hyannis and Harvard)	Dec. 1919
Eleanor M. O'Toole	2	Fitchburg Normal School	Nov. 1919
Agnes Marchant	1	Mt. Holyoke Seminary. Bridgewater Normal School. (Special Courses)	Oct. 1894
Helen E. Bradley	1	Bridgewater Normal School	Sept. 1920
Peabody School			
Frederick B. Thompson	Master	Teachers' School of Science. Bridgewater Normal School	Nov. 1894
Frances F. Curtis	Master's Asst.	Bridgewater Normal School. (Special Courses)	Mar. 1898
Annie M. R. Sturtevant	8	Wellesley College, A.B.†	Dec. 1907
*Susan C. Allison	7	Cambridge High School. (Attended Boston Normal School)°	Sept. 1889
Helen A. Abbott	7	Radcliffe College, A.B.°	Sept. 1911
Anna H. Welsh	7	(Attended Wellesley College 2 years †	Sept. 1901
Bernice E. Bartlett	6	Emerson College of Oratory°	Sept. 1907
Blanche C. Trefethen	5-6	Normal Department, Robinson Seminary †	Mar. †1895
Tina M. King	5	Bridgewater Normal School †	Sept. 1908
Butella E. L. Conland	4	Randolph, Vt. Normal School	Dec. 1898
Lena L. Ramhofer	4	Salem Normal School †	Sept. 1912
Mary A. Burke	3	Salem Normal School †	Sept. 1885
Edith F. Pulsford	2	Kindergarten Training School †	Sept. 1910
Elizabeth Higgins	2	Lowell Normal School	Nov. 1919
Maud E. Brown	1	Kindergarten Training School †	Jan. 1915
Minnie H. Ketchum	1	Kindergarten Training School †	Sept. 1913
Putnam School			
John H. Graham	Master	Bridgewater Normal School. (Boston University Extension Courses)	June 1913
Maude M. Mixer	Master's Asst.	Teachers' School of Science. Bridgewater Normal School	Sept. 1905
Sarah M. Grieyes	7	Cambridge Training School	Oct. 1882
Margaret F. O'Keefe	6	Salem Normal School †	Sept. 1900
Martha Chisholm	6	Gloucester Training School. (Special Courses)	Sept. 1907
Jane E. McKearin	5	Wellesley College, A.B.†	Sept. 1907
Edna F. Sullivan	5	Fitchburg Normal School	Sept. 1921
Mary A. Carmichael	4	Salem Normal School	Feb. 1889
Annie A. Trelegan	4	Salem Normal School (Special Courses) †	Dec. 1891

*On leave of absence.

†Resigned for one year and was reappointed.

‡Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Putnam School Cont. Mary A. Lincoln	3	Bridgewater Normal School. (University Extension and Private Courses)	Oct. 1912
Mary R. Collins	2	Lowell Normal School. (Summer School Course)†	Sept. 1914
Annie A. Rea	1	Castine, Me., Normal School. (Special Courses)	Sept. 1909
Mary A. O'Toole	Special Class (Pre-Voca- tional Class)	Lowell Normal School†	Dec.†1912
Nellie A. Kerrigan		Salem Normal School†	Oct. 1904
Roberts School Martin F. O'Connor	Master	Boston College, A.B. Courses Graduate School, Division of Education, Harvard Uni- versity, 3 years	Sept. 1914
Louise H. Griswold	Master's Asst.	Terryville High School. Special Courses)	Sept. 1893
Caroline M. Williams	8	Cambridge Training School	Sept. 1880
Dora Leadbetter	7	Framingham Normal School. (Radcliffe College 2 years)	Sept. 1906
Harriette E. Shepard	7	Salem Normal School. (Special Courses)	Oct. 1890
Bessie W. C. Fuller	6	Vermont Academy, 2 years. (Hyannis Normal School, 2 summers)	Sept. 1909
Helen C. Stolba	6	Salem Normal School	Oct. 1921
Helen Moynihan	6	Framingham Normal School. (State Course for Evening School Teachers)	Nov. 1920
Evelyn B. Kenney	5	Castine, Me., Normal School. (Course at Harvard)	Nov. 1886
M. Louise Gallagher	5	Bridgewater Normal School† (Special Courses)	Jan. 1915
Helena R. Riley	5	Bridgewater Normal School†	Feb. 1917
Mary M. Brigham	4	Winchenden High School. (Special Courses)	April 1882
Anna E. Dailey	4	Salem Normal School†	Sept. 1910
Martha L. Kivlan	4	Lowell Normal School†	Mar. 1918
Helen M. Long	Open Air	Salem Normal School†	Jan. 1915
Henriette E. de Rochemont	Open Air	Portsmouth, N. H., Normal School	Sept. 1894
Catherine M. Connell	Special	Lowell Normal School	Nov. 1918
Russell School Arthur C. Wadsworth	Master	Harvard University, S.B., Woos- ter Univ., Ohio, A.M., Ph.D. Bridgewater Normal School	Sept. 1897
Mary S. Bingham	Master's Asst.	Salem Normal School. (Special work at Radcliffe)	Sept. 1904
Sara S. Coyne	8	Salem Normal School†	Feb. 1912
Ida J. Mahoney	7	Framingham Normal School†	April 1903

†Attended the Wellington Training School.

†Resigned for one year and was reappointed.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Russell School Cont.			
Josephine F. Rowe	6	Salem Normal School†	Mar. 1909
Margaret M. Carroll	6	Salem Normal School†	Sept. 1911
Marguerite E. Porter	5	Framingham Normal School‡	Oct. 1911
Annie W. Cooper	4	Salem Normal School†	Sept. 1911
Alice V. Connelly	3	Salem Normal School†	Sept. 1908
Evelyn F. Leddy	2	Salem Normal School	Dec. 1918
Alice Ford Sullivan	1	Kindergarten Training School‡	Jan. 1915
*Carrie J. Allison	1	Cambridge High School. (Pri- vate School)‡	Sept. 1896
Shepard School			
Anna E. Welch	Principal	Salem Normal School‡	Sept. 1904
Alice M. Gage	5	High School. (Mt. Holyoke Col- lege, 2 years)	Mar. 1900
Anna G. Scannell	4	Salem Normal School‡	Sept. 1905
Agnes K. Geary	3	Salem Normal School‡	Jan. 1909
Catherine T. Murphy	2	Salem Normal School‡	Nov. 1915
Mary S. Redican	2	Kindergarten Training School	Sept. 1915
Mary H. Brooks	1	Bridgewater Normal School	Sept. 1898
Margaret W. Murphy	1	Kindergarten Training School.‡	Jan. 1915
Nettie I. Haff	Special	Salem Normal School‡	Sept. 1906
Sleeper School			
Elizabeth G. Nelligan	Principal	Cambridge English High School (Attended Salem Normal School. Summer Schools and Extension Courses at Harvard College, Simmons College and Boston Univer- sity)‡	Dec. 1899
Melissa M. Lloyd	5	Charlestown High School. (Spe- cial Courses)	Sept. 1893
Cora B. Poole	4	Salem Normal School‡	Feb. 1906
Evelyn M. Dormer	3	Salem Normal School‡	Dec. 1897
Katherine A. Mahoney	2	Salem Normal School‡	Sept. 1913
Catherine M. Herlihy	2	Salem Normal School‡	Sept. 1913
Mary R. Harrington	1	Salem Normal School‡	Oct. 1910
Mary A. Brennan	1	Framingham Normal School	Dec. 1916
Tarbell School			
Carrie P. Pierce	Prin. 2	Gloucester High School. (Salem Normal School, 1 year.) (Special Courses)‡	Oct. 1890
Irene A. McCarthy	3	Lowell Normal School	Sept. 1920
Myrtle I. Moore	2	Lowell Normal School	Oct. 1921
Anna F. Moran	1	Kindergarten Training School (Evening Course at Boston College)‡	Sept. 1911
Lillian M. Tynes	1	Salem Normal School‡	Sept. 1913
Thorndike School			
Francis J. O'Hara	Master	Boston College, A.B., A.M. Boston Normal School	Sept. 1912
Honora F. O'Brien	Master's Asst.	Gloucester High School. (Attend- ed Boston Normal School)	Sept. 1909
Mary E. Bousquet	7	Salem Normal School‡	Sept. 1909
Teresa M. Sullivan	6	Lowell Normal School	Sept. 1920

†Taught previous to this and resigned.

‡Attended the Wellington Training School.

*On leave of absence.

TABULAR VIEW—Continued

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Thorndike School Con. Minnie A. Doran	6-7	Salem Normal School (Special Courses)	Sept. 1895
Grace W. Fletcher	5	Cambridge Training School	Feb. 1874
Gertrude R. O'Hara	5	Salem Normal School†	Oct. 1910
Jennie L. Powell	4	Salem Normal School†	Sept. 1911
Florence A. Hickey	4	Salem Normal School†	Sept. 1912
Ethel McLaughlin	3	Lowell Normal School	Sept. 1920
Caroline B. Butler	3	Lowell Normal School	Nov. 1918
Gertrude A. Murphy	2	Salem Normal School. (Special Courses)‡	Sept. 1912
Alice G. Nolan	2	Salem Normal School	Nov. 1918
Anna N. Sullivan	2	Boston Normal School†	Mar. 1901
Elizabeth B. Gahm	1	Cambridge Training School. (Special Courses)	Sept. 1882
Alice W. Gaughan	1	Salem Normal School. (Special Courses)‡	Mar. 1911
Louise J. Butcher	1	Lowell Normal School	Oct. 1920
Luella M. Marsh	Open Air	Cambridge Training School.	Feb. 1884
Margaret J. McCann	Open Air	Lowell Normal School	Jan. 1920
Charlotte M. Cairnes	Special Class	Salem Normal School†	Nov. 1915
Websier School John D. Billings	Master	Bridgewater Normal School. Boston Sloyd Training School. Tufts College A.M. (Honorary)	Sept. 1872
Alice C. Phinney	Master's Asst.	(Attended Bridgewater Normal School)	Oct. 1881
Martha N. Hanson	8	(Attended N. H. Normal School)	Mar. 1890
Josephine Hills	8	Framingham Normal School	Sept. 1893
Lydia B. McFinon	8	Salem Normal School Radcliffe College 1 year.	Dec. 1916
Neva L. Hanson	7	(Attended Summer Normal School Courses at Lowell Institute)	Feb. 1919
Mary T. Laffin	7	Gorham (Me.) Normal School	Dec. 1918
Ellen C. Connell	7	Boston Normal School†	Feb. 1916
Margaret J. Penney	7	Cambridge Training School. (Special Courses)	April 1882
Mabel T. Ashley	6	Framingham Normal School	Sept. 1896
Mary F. Fahey	6	Gorham (Me.) Normal School	Nov. 1917
Agnes E. Corry	6	Lowell Normal School†	April 1914
Mary E. Ramsdell	6	Farmington, Me., Normal School	Apr. 1920
Hilda Holman	5	Lowell Normal School. (Summer sessions at Col- leges)	Sept. 1917
Magdalene M. Stumpf	5	Framingham Normal School	Dec. 1919
Loretta M. O'Connell	5	Bridgewater Normal School	Nov. 1918
Abbie M. MacNiff	5	Fitchburg Normal School	Apr. 1916
Minnie V. Reid	5	Boston Normal School†	Sept. 1888
Frances I. Menkes	4	Salem Normal School	Nov. 1920

*On leave of absence.

†Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Webster School Con.			
Harriet D. Cunningham	4	Salem Normal School†	Nov. 1918
Emma M. Goodwin	4	Farmington, Me., Normal School. (Special Courses)	Feb. 1910
Ethel L. Stratton	4	Quincy Training School (Special courses Boston University)	Sept. 1920
Gertrude I. Johnson	4	Worcester Normal School	Sept. 1901
Louise Wingate	4	North Adams Normal School†	Sept. 1912
Ada A. Billings	Special Teacher	Bridgewater Normal School	Sept. 1889
Nora P. Nason	Pre-voca- tional	Gorham, Me., Normal School. (Special Courses)	Dec. 1906
Wellington School			
Harold F. Blazo	Master	Harvard University, A.B.	Sept. 1910
Mary I. Vinton	Supervisor	Salem Normal School. (Special Courses)	Mar. 1881
Carrie H. Stevens	Master's Asst.	Farmington, Me., Normal School. (Special Courses)	Nov. 1894
Grace F. Chamberlain	8	Framingham Normal School. (Teachers' School of Science)	April 1903
Ellen T. Fitzgerald	7	Bridgewater Normal School†	Sept. 1916
Mildred F. Reinhalter	7	Bridgewater Normal School†	Apr. 1914
Marie Brandon	6	Bridgewater Normal School	Sept. 1920
Emily A. Moran	6	Lowell Normal School†	Sept. 1916
Marion I. Wood	6	Salem Normal School†	Sept. 1916
Anna M. Fitzgerald	5	Salem Normal School†	Sept. 1916
Mary J. Murphy	5	Salem Normal School†	Sept. 1916
Gertrude T. Noyes	5	Lowell Normal School†	Sept. 1917
Florence M. Feeley	4	Radcliffe College. A.B.†	Nov. 1915
Mary E. Sullivan	4	Salem Normal School†	Feb. 1920
M. Gertrude Shea	4	Framingham Normal School	Sept. 1920
Esther M. Hanley	3-2	Salem Normal School	Nov. 1918
Catherine H. Shaughnessey	3	Lowell Normal School	Sept. 1920
Mary Kalunian	3	Salem Normal School†	Sept. 1916
Anna M. Harrington	2	Salem Normal School†	Sept. 1916
Ruth F. Igo	2	Salem Normal School†	Sept. 1916
Mary A. Laffey	1	Salem Normal School†	Nov. 1917
Margaret Jacobs	1	Lowell Normal School†	Sept. 1916
Mary J. Keefe	1	Fitchburg Normal School†	Sept. 1916
Anna L. Moran	Ungraded	Lowell Normal School	Sept. 1921
Mary L. Balfe	Ungraded	Framingham Normal School	Sept. 1920
M. Agnes Tierney	Special	Framingham Normal School	Nov. 1918
Willard School			
Katharine F. Hayes	Principal	Framingham Normal School	Sept. 1902
Gertrude T. Sullivan	3	Salem Normal School	Dec. 1902
Gertrude B. Maguire	3	Salem Normal School	Nov. 1918
Mildred E. Murray	3	Lowell Normal School†	April 1918
Mary A. O'Callaghan	3	Cambridge English High School. (Attended Salem Normal School)	Sept. 1913

†Attended Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Willard School Con.			
Lucy F. Cline	2	Kindergarten Training School†	Oct. 1910
Elizabeth M. Crowley	2	Salem Normal School†	Dec. 1901
M. Louise Kane	2	Kindergarten Training School	Sept. 1914
Agalina Aldrich	2	Cushing Academy. (Wellesley College, 2 years)	Sept. 1901
Caroline A. Sullivan	2	Kindergarten Training School†	Nov. 1912
Elizabeth J. O'Keefe	1	Kindergarten Training School. Hyannis Normal School	Oct. 1905
Dorothy R. Duvey	1	Kindergarten Training School†	Jan. 1915
Alice G. Lynch	1	Lowell Normal School	Nov. 1918
Mary R. O'Keefe	1	Salem Normal School	Nov. 1918
M. Olive McQuillen	1	Lowell Normal School	Jan. 1920
Wyman Open Air School			
Agnes J. McElroy	Principal	Salem Normal School†	Dec. 1891
Winifred B. Goodwillie	Teacher	Salem Normal School (Summer Courses)†	Mar. 1906
Catherine E. Myler	"	Lowell Normal School	Sept. 1921
Marguerite M. Mahoney	"	Lowell Normal School	Nov. 1918
CONTINUATION SCHOOLS			
James Dugan	Director	Amherst, A. B.	Jan. 1910
Maude A. Deehan	Vocational Guidance Clerk	Portland, Me., Normal School. (Special Courses)	Dec. 1893
Mary Cassidy		St. Mary's High School	Dec. 1920
Boy's School			
E. Joseph Goulart	Principal	Hyannis Normal School (Special courses at Harvard Univer- sity & Boston University)	Sept. 1920
George F. Barry	Printing- Academic	Bridgewater Normal School	Sept. 1920
Thomas F. Woods	Printing- Shop	High School Teachers' Training Course	Sept. 1920
Arthur L. MacRea	Woodwork- Shop	Attended Newton High School (Special Courses)	Sept. 1920
Girls' School			
Mary A. Beland	Principal	Salem Normal School. (Univer- sity Extension and Private Courses)†	Jan. 1898
Elizabeth F. Butler	Cooking- Academic	Lowell Normal School†	Sept. 1916
Mildred M. Ready	Cooking- Shop	Attended Simmons College. (Special Courses)	Sept. 1920
Stella May Davis	Sewing Academic	Plymouth, N. H., Normal School	May 1917
Mrs. Ellen P. Tracy	Sewing Shop	Roxbury High School. (Special Courses in Household Arts)	Sept. 1920

†Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
KINDERGARTENS			
Agassiz			
Florence Rice	Kindergartner	Kindergarten Training School. (Radcliffe College, 2 years)	Sept. 1899
Mabel O. Phelps	Asst. “	Kindergarten Training School	Dec. 1920
Boardman			
Annie L. Crane	Kindergartner	Kindergarten Training School	Dec. 1904
Jane S. Feeny	Asst. “	Kindergarten Training School	Feb. 1916
Gannett			
Carrie E. Shepherd	Kindergartner	Kindergarten Training School. (Special Courses)	Sept. 1897
Gore			
Helen N. Hicks	Kindergartner	Kindergarten Training School†	Sept. 1910
Lillian A. McCarthy	Asst. “	Kindergarten Training School†	Sept. 1913
Haggerty			
Helen F. Dogherty	Kindergartner	Kindergarten Training School. (Special Courses)°	Sept. 1911
Frances E. Fitzgerald	Asst. “	Kindergarten Training School	Nov. 1915
Houghton			
Marion L. Akerman	Kindergartner	Kindergarten Training School	April 1900
Lowell			
Melinda Gates	Kindergartner	Kindergarten Training School (Berlitz School)	Sept. 1889
Merrill			
Caroline A. Leighton	Kindergartner	Kindergarten Training School. (Special Courses)	Sept. 1896
Dora E. Clextan	Asst. “	Kindergarten Training School. (Special Courses)	Apr. 1920
Parker			
Anna D. Francis	Kindergartner	Kindergarten Training School°	Jan. 1906
Ruth D. Cobb	Asst. “	Kindergarten Training School. (Simmons College, 2 years Emerson College, 2 years)	Sept. 1916
Peabody			
Irene L. Phelps	Kindergartner	Kindergarten Training School°	April 1904
Mary S. Dempsey	Asst. “	Kindergarten Training School°	Sept. 1912
Shaw			
Mary F. Leland	Kindergartner	Kindergarten Training School° (Special Courses)	Mar. 1896
Shepard			
Clara A. Hall	Kindergartner	Kindergarten Training School (Special Courses)°	May 1892

°Attended the Wellington Training School

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Sleeper Mabel S. Adams Mary C. Tracey	Kindergartner Asst. “	Kindergarten Training School Kindergarten Training School	Oct. 1893 Oct. 1919
Thorndike Gertrude L. Bunton Julia Sullivan	Kindergartner Asst. “	Kindergarten Training School° Kindergarten Training School	Oct. 1910 April 1919
Webster Jennie S. Clough	Kindergartner	Kindergarten Training School	Sept. 1897
Wellington Gertrude M. Gove Edith A. McCarthy	Kindergartner Asst. “	Kindergarten Training School Kindergarten Training School	May 1893 Sept. 1920
Willard Mary A. McMahon Beatrice Kelley	Kindergartner Asst. “	Kindergarten Training School° Kindergarten Training School°	Oct. 1911 Sept. 1913
SPECIAL SUBJECTS			
Practical Art Alfred F. Burke	Director	Massachusetts Normal Art School	Sept. 1920
Harriet M. Simpson	Assistant	Mass. Normal Art School	Sept. 1921
Music John B. Whoriskey	Director	(Special Courses in vocal and instrumental music)	Feb. 1911
Mary F. Ahern	Assistant	(Attended N. E. Conservatory of Music. Boston University Supervisor's Certificate)	May 1919
Josephine C. Wyman	Assistant	Farmington, Me., Normal School	Apr. 1903
Physical Education Fanny E. Bickley	Director	Sargent School of Physical Edu- cation	Sept. 1918
Mildred Grant	Assistant	Sargent School of Physical Edu- cation	Sept. 1919
Physical Education (Boys) (High School and 7th and 8th grades) Joseph J. Smith	Teacher	Posse Normal School (Special Courses)	Sept. 1921
Americanization R. M. O'Toole Rondeau	Director	Fitchburg Normal School (Post- graduate Course, 2 years)	Sept. 1921

°Attended the Wellington Training School.

TABULAR VIEW—Continued.

Schools and Teachers	Grade	Where Graduated Highest Institution (Also Other Courses)	Date of Appoint- ment
Manual Training and Pre-Vocational Classes			
Edward F. McAuliffe	Ellis	Rindge Technical School. (Sloyd Training School, 1 year)	Nov. 1919
William M. Murphy	Wellington	Mass. Normal Art School	May 1918
John E. Howard	Webster	Sloyd Training School. Law School	Sept. 1911
Gertrude B. Duffy	Webster	Salem Normal School. (Special Courses at Harvard and Simmons Colleges. Sloyd Training School)†	April 1902
Mary E. Quirk	Roberts	Salem Normal School	Feb. 1910
Robert V. Meyer	Peabody	Common Schools (Stevens Trade School)	Sept. 1921
Murray K. Worden	Roberts	Common Schools	Sept. 1921
Cooking			
Helen R. Cook	Teacher	Attended Simmons College. (Special Courses)	Sept. 1919
Mabel A. Harrington	Teacher	North Adams Normal School. (Special Courses at Simmons and Columbia Colleges)	April 1920
Classes for Stammerers			
Sallie A. Brooks	Teacher	Kindergarten Training School. (Special Courses at Emerson College of Oratory, and at Boston University)†	Sept. 1913
Special Class at Agassiz Museum			
Margaret Tucker	Teacher	Vassar College. (Special Courses)	Sept. 1919
Ruth D. Crawford	Teacher	Lowell Normal School	Dec. 1918
Vision Class			
Julia M. Horgan	Teacher	Salem Normal School†	Sept. 1908

†Attended the Wellington Training School

TABULAR VIEW—Concluded.

Teachers of Sewing.....	Agnes Gordon, Director Anna C. Coleman Maude E. Delorme Mary J. Smith Minnie F. Wilson Nettie L. White
Superintendent of Schools.....	Michael E. Fitzgerald
Assistant Superintendent	} James Dugan
Director of Continuation Schools	
Supervisor of Primary Schools.....	Katharine L. McElroy
Supervisor of Kindergartens.....	Alice V. McIntire
Business Agent.....	Constantine J. Church
Secretary to School Committee.....	Agnes M. Wadden
Secretary to Superintendent.....	Marie Walsh
Clerks.....	Gerald T. Liston *Helen C. Butler Agnes Delehanty Ellen B. Wait
Porter	John H. Lemon
Attendance Officers.....	Lucian S. Cabot William J. Cogan Dennis F. Hurley Jeremiah F. McDermott James H. Shuckrowe John J. Sullivan Edward J. Walsh

*On leave of absence.

TEACHERS AND OFFICIALS PENSIONED BY THE CITY

Agent	Sanford B. Hubbard
Teachers, High School	Emma A. Scudder
Elementary Schools	Ella R. Avery
"	Mary P. Blair
"	Sally N. Chamberlain
"	Ellen A. Cheney
"	Josephine M. Doherty
"	Susan M. Doe
"	Mary A. Driscoll
"	Georgianna P. Dutcher
"	M. Elizabeth Evans
"	Charlotte A. Ewell
"	Sarah J. Gunnison
"	Nellie A. Hutchins
"	Annie B. Josselyn
"	Evelyn J. Locke
"	Eliza S. Paddack
"	Frances E. Pendexter
"	Emily R. Pitkin
"	Julia A. Robinson
"	Abby S. Taylor
"	Lydia A. Whitcher

TEACHERS AND OFFICIALS PENSIONED FROM THE STATE
RETIREMENT FUND

Assistant Director Art Education	Lucia N. Jennison
Elementary Schools	Frances Allen
"	Sara A. Bailey
"	Herbert H. Bates
"	Anna F. Bellows
"	Selma E. Berthold
"	Fannie P. Browning
"	Charlotte M. Chase
"	Emma A. Faulkner
"	Genevieve S. Flint
"	Ella F. Gulliver
"	Frances E. Higgins
"	Ellen J. Hunt
"	Flora C. Ingraham
"	W. Mortimer MacVicar
"	Eusebia A. Minard
"	Louise C. Patterson
"	Ellen J. Plympton
"	Harriette E. Ryan
"	Hattie A. Thayer
"	Elizabeth A. Tower
"	Mary E. Towle
"	Harriett Townsend
"	Mary A. Townsend
"	Eliza D. Watson
"	Laura S. Westcott
"	Grace R. Woodward
"	Susan C. Wyeth
"	Hortense O. Young

SALARY SCHEDULE

Cambridge High and Latin and Rindge Technical Schools

	Minimum	Increase Per Year	No. of Years	Maximum
Head Master.....	\$3,580	\$180	3	\$4,120
Masters.....	2,500	120	6	3,220
Masters, Heads of Departments	3,136	120	4	3,616
Heads of Departments, Men ..	1,932	120	7	2,952
Heads of Departments, Women	1,644	96	6	2,220
Teachers, Men.....	1,536	120	7	2,556
Teachers, Women.....	1,248	96	6	1,824
Teacher—Coach.....	2,336	120	7	3,356

Elementary Schools

Masters	\$2,500	\$120	6	\$3,220
Masters Assistants	1,548	84	2	1,716
Principals, 9 rooms or more....	1,640	120	3	2,000
Principals, 8 rooms or less.....	1,588	84	2	1,756
Teachers of 8th grade	1,092	84	6	1,596
Teachers	1,008	84	6	1,512

Kindergartens

Teachers.....	\$984	\$84	6	\$1,488
Assistant Teachers.....	948	84	5	1,368

Music and Art

Director.....	\$2,500	\$120	6	\$3,220
Assistants.....	1,092	84	6	1,596

Sewing

Director.....	\$1,056	\$84	6	\$1,560
Teachers.....	996	84	6	1,500

Physical Education

Director.....	\$1,860	\$120	5	\$2,460
Assistants.....	1,248	96	6	1,824

Cooking

Teachers.....	\$1,008	\$84	6	\$1,512
---------------	---------	------	---	---------

Prevocational

Teachers, Academic.....	\$1,204	\$84	6	\$1,708
Teachers, Women, Industrial..	1,204	84	6	1,708
“ Men, “	1,392	120	4	1,872

Special Classes

Principal (Open Air).....	\$1,732	\$84	2	\$1,900
Teachers.....	1,152	84	6	1,656

Attendance Officers

Each.....	\$1,300	\$100	5	\$1,800
-----------	---------	-------	---	---------

(Note.—Teachers entering the service of the Cambridge Public Schools for the first time, with outside experience, shall be given credit on the salary schedule by the following rule:
Three years of experience outside of the city will be considered as equivalent to one year of experience in the city, but in no case shall a teacher be credited with more than 5 years of experience.)

EVENING SCHOOLS

EVENING HIGH SCHOOL

	Per Evening
<i>Master:</i> Minimum.....	\$6.00
Maximum.....	7.00
<i>Teachers:</i> Minimum.....	3.00
To teachers during the first year of service in Evening Schools.	
Maximum.....	4.00
To teachers of five or more years' experience in day schools ; to teachers of less than five years' experience in day schools after one year of service in Evening Schools, and to teachers without day school experience after two years of service in Evening Schools.	
<i>Secretary.</i>	3.00
<i>Clerk.</i>	2.00

RINDGE EVENING INDUSTRIAL SCHOOL

<i>Master:</i> Minimum.....	6.00
Maximum.....	7.00
<i>Teachers:</i> Minimum.....	3.50
Maximum.....	4.50
<i>Secretary.</i>	3.00

ELEMENTARY SCHOOLS

<i>Principals.</i>	5.00
<i>Teachers:</i> Minimum.....	2.50
To teachers during the first year of service in Evening Schools.	
Maximum.....	3.00
To teachers of five or more years' experience in day schools; to teachers of less than five years' experience in day schools after one year of service in Evening Schools, and to teachers without day school experience after two years of service in Evening Schools.	
<i>Clerks.</i>	2.00

EVENING TRADE SCHOOL

<i>Principal:</i> Minimum.....	5.00
Maximum.....	6.00
<i>Teachers:</i> Minimum.....	3.00
Maximum.....	4.00
<i>Secretary.</i>	3.00

OFFICERS OF THE BOARD

January 1, 1921

SUPERINTENDENT OF SCHOOLS

MICHAEL E. FITZGERALD.....30 Bellevue Avenue

ASSISTANT SUPERINTENDENT
DIRECTOR OF CONTINUATION SCHOOLS

JAMES DUGAN.....32 Blake Street

SUPERVISOR OF PRIMARY SCHOOLS

KATHARINE L. McELROY.....31 Gray Street

SUPERVISOR OF KINDERGARTENS

ALICE V. McINTIRE.....3 Linnaean Street

AGENT OF THE SCHOOL COMMITTEE

CONSTANTINE J. CHURCH.....87 Fayerweather Street

SECRETARY OF SCHOOL COMMITTEE

MARIE WALSH.....21 Fairfield Street

OFFICES AT CITY HALL

Offices open from 8 o'clock A. M. to 4 o'clock P. M. every day excepting Saturday. Saturday from 8 o'clock A. M. to 12 o'clock M.

SCHOOL CALENDAR

1921-1922

The First Term: From September 14 to December 23.

The Second Term: From January 3 to February 4.

The Third Term: From March 6 to April 28.

The Fourth Term: From May 8 to June 23.

1922-1923

The First Term: From September 12 to December 22.

SCHOOL HOLIDAYS

Columbus Day; Thanksgiving Day, the day preceding and the day following; Washington's Birthday; Good Friday; Patriots' Day; Memorial Day; and the Seventeenth of June. If one of these holidays falls on Thursday or Sunday, the schools are closed on the day following.

There are two terms of the evening schools. The first term begins on the second Monday of October and closes one week previous to the closing of the day schools for the Christmas Holidays. The second term begins on the first Monday of January, except when that day falls on New Year's Day, in which case it begins on the Monday following New Year's Day, and continues for at least twenty-five evenings. Vacations and holidays are the same as in the day schools.

PLANNING BOARD

SIXTH ANNUAL REPORT OF THE PLANNING BOARD for the Year 1921-22

MEMBERSHIP

Ex-officio Member

HIS HONOR THE MAYOR

Citizen Members

	Term expires
WALTER F. EARLE, Chairman.....	May, 1922
HELEN CABOT ALMY.....	May, 1924
BENJAMIN ROSEMAN	May, 1926
JOSEPH A. AUTHIER.....	May, 1925

May 31, 1922.

During the past year the Planning Board has concentrated its attention on zoning. Many hearings and conferences have been held by the Board and by its representative, Mr. William F. Harris, and its consultant, Mr. Arthur C. Comey, including a series of eight beginning at City Hall and continuing locally in various school-houses throughout the city. For each of these, flyers, of which the following is typical, were distributed at every house in the neighborhood.

These were followed by a joint meeting of the Cambridge and Economy Clubs. A large number of copies of the proposed ordinance and preliminary zoning maps were sent out with the urgent request for suggestions and criticisms. In these ways the Board has endeavored to inform the citizens of Cambridge fully as to the zoning scheme and to benefit by the consideration given it by many interested persons. It now presents its final report to the Council in the form of a proposed amendment to the building code and an accompanying zoning map. In the draft for the ordinance itself are inserted brief explanatory notes. Preceding it are statements summarizing and explaining the import of its provisions.

For a general discussion of zoning and an outline of the main features of the ordinance reference is made to the Board's previous document, "Zoning for Cambridge," printed in its Fourth Annual Report.

The Board unqualifiedly recommends the adoption of the ordinance as it stands or as consolidated with the Building Code. If, however, as a result of consideration by members of the Council or after the hearing required to be held by the enabling legislation under which the zoning ordinance may be adopted, changes are deemed advisable the Board will be glad to confer with the Council and offers the services of its consultant in drafting such amendments to the ordinance or to the map.

Respectfully submitted,

WALTER F. EARLE,

Chairman.

HELEN CABOT ALMY,

J. O. AUTHIER.

BENJAMIN ROSEMAN.

A NEIGHBORHOOD TOWN-MEETING

A HEARING AT

THE SHEPARD SCHOOL

THURSDAY, DECEMBER 8, 8 P. M.

To discuss dividing Cambridge into districts or zones to regulate the height, area, and use of buildings, to assure every citizen a share of light and access, protection from unseemly noises, unpleasant odors, and offensive sights, to preserve present values and create new ones, to the benefit of the individual and the City.

Come and Bring Your Friends

This deeply concerns every land holder, dweller, and business man or woman in Cambridge.

The Planning Board of Cambridge



Walter F. Earle, Chairman

Benjamin Roseman

Helen Cabot Almy

Joseph Authier

SUMMARY OF PROPOSED ZONING ORDINANCE

The proposed zoning ordinance, with certain precise exceptions designed to prevent hardship or unreasonable severity, protects specific districts of the city from unsuitable new buildings or uses. No existing uses are stopped, but any changes must be towards conformity. It will be enforced as part of the Building Code. Amendments may be made by the Council, but in case of protest will require a three-fourths vote.

USE DISTRICTS

RESIDENCE DISTRICTS

Dwellings, hotels, clubs, churches, educational and philanthropic institutions, greenhouses and farming are permitted, with customary incidental accessory uses. In Building Districts four (B4) multiple dwellings of every sort, hospitals, amusement parks and car barns are excluded.

BUSINESS DISTRICTS

In Building Districts three or four (B3, B4) stores, light manufacturing chiefly for sale at retail and other uses supplying local needs are also permitted. In Building Districts one or two (B1, B2) all uses are permitted except industries emitting noxious odors, dust, smoke, gas or noise.

UNRESTRICTED DISTRICTS

All uses are permitted as at present.

BULK DISTRICTS

BUILDING DISTRICT ONE

No change. Heights as at present, 100 feet.

BUILDING DISTRICT TWO

Six stories or eighty feet.

Open Spaces: As at present:

Rear Yards: Ten feet plus an additional amount for high buildings.

Side Yards: Five feet plus.

Outer Court between wings: Ten feet plus.

Outer Court on lot line: Six feet plus.

Inner Court not on lot line: Twelve feet plus.

Inner Court on lot line: Seven feet plus.

Building Line: None.

BUILDING DISTRICT THREE

Four stories or sixty feet; all buildings, except apartment houses, if set back 100 feet from every lot line or if 100 feet within Unrestricted District: Six stories or eighty feet.

Rear Yards: Five feet deeper than at present.

Side Yards: One foot wider.

Outer Court between wings: Two to four feet wider.

Outer Court on lot line: One-half foot wider.

Inner Court not on lot line: About two feet wider.

Inner Court on lot line: About one foot wider.

Building Line: In Residence Districts (R3), five feet and not less than twenty-five feet from center of any street.

BUILDING DISTRICT FOUR

Two and one-half stories or forty feet. Private dwellings: Three stories.

There must be a rear yard and a side yard:

Rear Yard: Ten feet deeper than at present.

Side Yards: Two feet wider.

All important windows must open on a street or yard.

Courts: Same as in Building District Three.

Building Line: In Residence District (R4), ten feet and not less than thirty feet from center of any street.

THE IMPORT OF THE PROPOSED ZONING ORDINANCE FOR CAMBRIDGE

by

ARTHUR C. COMEY, CONSULTANT

Zoning, as has been pointed out in the previous reports of the Planning Board, is the extension of the principle underlying the Building Code to regulate the use and bulk of buildings in a manner to fit the particular conditions of specific districts. Just as different regulations are appropriate for a large city and for a suburban town, so also are similar differences appropriate for different parts of the same city. For many years zoning has been practised in Cambridge in respect to building construction for protection from fire, by the requirement of more fire-proof buildings within the "fire limits" than without. It is now proposed to apply zoning that will protect each part of the community from uses of buildings injurious to those parts, through the establishment of residential, business and unrestricted districts; and to preserve light and air and freedom from congestion, with its attendant evils, by establishing bulk districts, within which tall buildings and those covering a large part of the lot may not be built.

The ordinance now presented is in the form of an amendment to the Cambridge Building Code. It is accompanied by brief explanatory notes; and in order to make clear its precise application the amendments have been inserted in a copy of the code on file for inspection with the Planning Board. The import of each of its provisions is set forth in the following statement. For more general statements as to the meaning and value of zoning and its general effect upon Cambridge reference is made to the previous report.

The proposed ordinance perfects the application of certain clauses and definitions of the Building Code for the purposes of zoning and incorporates zoning as to use in Section 7 and zoning as to bulk in Sections 12, 13 (height), and 15 (proportions of the lot occupied). The code is to continue unchanged in the districts where no further restrictions are appropriate. The new provisions are not retroactive, but like most provisions of the Building Code apply to all new buildings and to alterations or changes of use in existing buildings.

Section 7 divides the city into residence, business and unrestricted districts, as shown on the zoning map, which is made part of the ordinance. In a residence district business and industry are prohibited. No building nor use is permitted except the following: Residence buildings,—dwellings, lodging and boarding houses, hotels, clubs, and accessory buildings, including private garages; the following public buildings,—hospitals and the like, city buildings, schools, libraries and other educational buildings, passenger stations, and churches, and the following business buildings,—amusement parks and the like, bath houses, greenhouses, ice houses and public garages without repair facilities, provided the consents are secured of the owners of seventy-five per cent. of the property within 500 feet. Accessory uses are strictly limited so as to prevent any use objectionable or detrimental to the residential character of the neighborhood. In those parts of the residence districts where the buildings are most restricted as to bulk only private and two-family dwellings and accessory buildings thereto, city buildings, schools, libraries, station and churches are allowed.

In a business district no trade or industry is permitted that is noxious or offensive by reason of the emission of odor, dust, smoke, gas or noise. In outlying business districts no manufacturing shall be carried on except for immediate sale at retail.

In unrestricted districts no further limitations are imposed.

Existing buildings and uses are permitted to remain even though not conforming to the requirements for the district in which they are located, but in a residence or business district it may not be changed to a use so prohibited. In case of a change to another nonconforming use no alterations are permitted, and in case alterations are made no change to a nonconforming use is permitted. No alterations of a nonconforming building shall exceed one-half its value. These provisions restrict the expansion of nonconforming uses, but are modified by the power of the Board of Appeal to vary the use district regulations in harmony with their general intent as follows: Permit the extension of an existing building and its existing use or the erection of an additional building upon the lot already occupied by the establishment; permit on a lot divided by a use district boundary line the extension of a use not more than twenty-five feet beyond the boundary of the district in which it is authorized; permit the extension of a building under proper safe-

guards; permit the rebuilding of a building destroyed by fire or similar cause; permit in a residence district any building in keeping with buildings authorized therein.

Section 12 establishes bulk districts, styled Building Districts one, two, three and four, as shown on the zoning map which is made part of the ordinance. To avoid unnecessary confusion the present "fire limits," now called Building District one, are continued without change of name and the present Building District two is expanded into Building Districts two, three and four.

Section 13 provides that in Building District one buildings may continue to be built to the height permitted by the present Building Code regulations,—100 feet but not exceeding twice the width of the street on which the building stands. In Building District two the maximum is reduced to eighty feet and six stories. In Building District three no building, except industrial buildings and certain non-residence buildings, shall exceed sixty feet, nor one and one-half times the width of the street, nor four stories. In Building District four these limits are reduced to forty feet, once the width of the street and two and one-half stories, except that private dwellings may be three stories high.

Section 15 brings together the provisions controlling areas that may be occupied by buildings. In Building Districts one and two the present provisions of the Building Code continue unchanged. In Building District three somewhat better conditions of light and air are established by requiring larger yards and courts. The same method of fixing sizes is used, a minimum being established for low buildings, with progressive increases for higher ones and for unusually deep ones. Rear yards must be fifteen feet deep for thirty-foot buildings or two and one-half story dwellings. On corner lots the rear yard may be two-thirds that for interior lots. In certain limited cases, where owing to the shape of the lot a yard would be access directly to the street by a fifteen-foot passageway. Side scarcely necessary it may be omitted. Rear dwellings shall have yards must be six feet wide for thirty-foot buildings or two and one-half story buildings. Outer courts,—that is, areas opening on the street or rear yard but not running through,—must be ten feet wide between wings of a ten-foot building or a one story dwelling, or seven feet wide if on a lot line for such a building. Inner courts,—that is, areas not opening on the street or rear yard,—if not on

a lot line must be twelve feet wide and have an area of 200 square feet for ten-foot buildings or one story dwellings, and if on a lot line must be seven feet wide and have an area of 150 square feet. In residence districts buildings must be twenty-five feet from the center of the street, and five feet from the side-line of the street.

In Building District four adequate light and air is insured by the following provisions: There must be behind every building a rear yard not less than twenty feet deep for a building thirty feet high or for a two and one-half story dwelling, except that on corner lots the depth may be reduced by one-quarter. On only a few very shallow types of lots may this yard be omitted. Rear buildings must have direct access to the street through a twenty-foot passageway. Every building except corner buildings must have a side yard, which for a thirty-foot building or two and one-half story dwelling must be seven feet wide. Windows equalling one-eighth the area of each room in dwellings, except bath room, shall open on a street or yard. Additional windows may open on courts of the size established in Building District three. All buildings must be thirty feet from the center of the street, and if in a residence district ten feet from the side-line of the street.

The remaining sections are to perfect the Building Code for purposes of zoning and to secure enforcement. Section 1 sets forth the presumptive reason for enforcing the ordinance, in the interest of public health, safety, comfort, convenience and general welfare; and declares that this ordinance should not act to set aside other restrictions already in effect, but will supplement them and will control wherever it is more strict.

Sections 2 and 3 perfect the wording of the permit section.

Section 4 brings all the definitions of dwellings together and makes more precise the restriction of basement dwellings, to be occupied only by the janitor and family in multiple dwellings of seven or more families. It also brings the method of measuring rear yards into the definition.

Section 5 expands the classification of uses of buildings in the present Building Code to fit the zoning provisions. It lists railroad passenger stations with city buildings; it classifies churches separately; it lists in a separate class all the trades and industries of a nuisance character; and it provides a class for public stables and garages.

Section 6 carries this expanded classification into the provisions of the present Building Code without change.

Section 8 changes the headings in the code to conform to the new provisions.

Section 9 strengthens the provisions for occupancy permits and establishes regulations governing their issuance so as to insure carrying into effect the zoning provisions.

Sections 10 and 11 rearrange the order of certain sections to bring all the zoning provisions together. The present division on building heights is absorbed in a new division (4) on building districts, where it now belongs.

Section 14 insures the equable application of the height regulations on streets less than twenty feet wide and on corner lots.

Section 16 transfers the general requirements for lots into the same division with other lot requirements and perfects them by making them apply to all buildings and adding the requirement that no rear yard shall have its level above that of the adjoining ground.

Section 17 brings all the provisions regarding classification of construction together.

Section 18 makes various parts of the existing ordinance conform to changes made in other parts.

Section 19 rearranges certain divisions of the code so as to bring those of similar character together, thus facilitating its use by builders and others.

Section 20 establishes the method of procedure for changing the zoning provisions, in accordance with the state enabling act (Chapter 601, Acts of 1920, re-enacted as Sections 25 to 30 of Chapter 40 of the General Laws, as amended by Chapter 40 of the Acts of 1922). The council must consider any amendment which is petitioned for by the owners of one-half of the frontage affected, but no amendment to which any property owner affected protests shall be passed except by three-fourths vote.

Section 21 permits any building under way or for which a permit shall have been requested at the time of the passage of the ordinance to be completed within a reasonable time without conforming to the zoning provisions. It also permits the strengthening of unsafe walls without change of use, thus preventing hardship or danger for undertakings prior to the zoning ordinance.

In these ways it is aimed to apply zoning to Cambridge to its great benefit, with the minimum of hardship and without creating any unnecessary burdens on any of its citizens. Practically every property owner will be immediately benefited by the protection and assurance of permanency afforded him, the city's taxable valuation will be stabilized and in the end conservatively raised with the enduring values thus created. In short, Cambridge will be a better place to live in and to work in.

REVISION OF BUILDING ORDINANCE
ARRANGEMENT

Divisions	Present Sections
1. Administration	Sections 1-8
2. Definitions	Sections 9 and 177 combined
3. Classification by Use	Sections 15, 16 (Use Districts)
4. Building Districts	Section 18 (Districts)
	Section 17 amended (Heights)
	Section (—) (new, Height Exceptions)
5. Space requirements for Dwellings....	Sections 207-212, 215, 216
6. Area regulations	Sections (—) (new) and 178 (modified)
7. Classification by Construction. (Div. 3=Div. 7)	Sections 10-14, 19
8-28.—(Construction.) (No change)	Sections 29-200
29. Additional for dwellings	Sections 213, 214, 217-233
30. Existing Buildings other than dwellings.....	Sections 20-28
31. Existing Dwellings	Sections 234-242
32. Maintenance and Occupancy	Sections 201-204, 243, 244

(Draft Revised, May 31, 1922.)

NOTE: This draft may properly be superseded by a consolidation of this ordinance with the present Building Code prior to engrossment.

CITY OF CAMBRIDGE

In the year One Thousand Nine Hundred and Twenty-two.

AN ORDINANCE ENTITLED:

“Restriction of the Location of Trades and Industries and the Location of Buildings designed for Specified Uses, Regulation and Limitation of the Height and Bulk of Buildings hereafter erected and Regulation and Determination of the Area of Yards, Courts, and other Open Spaces, and Establishment of the Boundaries of Districts for the said Purposes.”

Be it ordained by the City Council of the City of Cambridge, as follows:—

ARTICLE I. GENERAL PROVISIONS

Interpretation

Section 1. An ordinance entitled “Construction, Maintenance, and Inspection of Buildings” as amended, is hereby amended as hereinafter set forth. In Section 1 of said ordinance add at the end a new paragraph: “In interpreting and applying the provisions of this ordinance, they shall be held to be the minimum requirements adopted for the promotion of the public health, safety, comfort, convenience and general welfare. This ordinance shall not repeal, abrogate, annul or in any way impair or interfere with any existing provision of law or ordinance or any rules, regulations or permits previously adopted or issued or which shall be adopted or issued pursuant to law relating to the use of buildings or premises; nor shall this ordinance interfere with or abrogate or annul any easements, covenants or other agreements between parties; provided, however, that where this ordinance imposes a greater restriction upon the use of buildings or premises or upon the height of buildings or requires larger yards, courts, or other open spaces than is imposed or required by such existing provision of law or ordinance or by such rules or regulations or by such easements, covenants or agreements, the provisions of this ordinance shall control.”

NOTE: This sets forth the public purposes under which zoning is carried out.

Section 2. In Section 6, after "See" in the first line, insert "also"; before the words "permits" in the second and third and fifth lines, respectively, insert in each case the word "additional".

NOTE: This is simply to perfect the wording.

Section 3. In Section 6, at the end of the first sentence of the second paragraph, insert "and shall include a plan at suitable scale, showing the location of the proposed buildings upon the lot."

NOTE: This facilitates deciding whether the building is provided with adequate open spaces.

Definitions

Section 4. In Section 9, for "Dwellings" and its definition substitute present Section 205, as part of Section 9.

NOTE: This brings all the definitions together.

In Section 9, in the definition of "Habitable Story," for the words after "occupied by," substitute "one or more families, except those in multiple dwellings of seven or more families not occupied by more than one family."

NOTE: This reduces the opportunity for basement dwellings.

In Section 9, insert at the end of the definition of "rear yard," the words in Section 208 beginning "The depth of such yard," and ending "or right of way".

NOTE: This brings the method of measurement into the definition.

ARTICLE II. USE REGULATIONS

Use Classification

Section 5. For Section 15 substitute the following new section:

"Section 15. For the purpose of this ordinance all buildings shall be classified according to the occupancy, as residence buildings, public buildings, and business buildings.

RESIDENCE BUILDINGS

A. Private dwellings; two-family dwellings; club and boarding houses with less than five sleeping rooms above the secondary and not over two and one-half stories high.

B. Multiple dwellings.

- C. Lodging houses, dormitories, convents.
- D. Hotels, club and boarding houses other than A.

PUBLIC BUILDINGS

- A. Hospitals, asylums, nurseries, detention buildings.
- B. Libraries, museums, court houses, city halls, fire and police stations, railroad passenger stations.
- C. Schoolhouses, college class-room buildings.
- D. Churches and buildings accessory to them.
- E. Buildings having an assembly hall or lodge room; amusement halls, exhibition buildings.
- F. Theatres, moving-picture houses, opera houses, music halls.

BUSINESS BUILDINGS

- A. Office buildings.
- B. Stores, restaurants.
- C. Storage buildings and manufacturing buildings not used for any of the purposes listed under D.
- D. Buildings used for any of the following trades, industries or uses:—

Ammonia, chlorine or bleaching powder manufacture.

Arsenals.

Asphalt manufacture or refining.

Assaying (other than gold or silver).

Blacksmithing or horseshoeing.

Boiler making.

Brewing or distilling of liquors or spirits.

Brick, concrete products, terra cotta or tile manufacture.

Carpet or bag cleaning.

Celluloid manufacture or treatment.

Cold storage.

Contractors' yards.

Crematory other than a crematory located in a cemetery.

Disinfectant or insecticide manufacture.

Distillation of coal, wood or bones.

Dyeing or dry cleaning at wholesale.

Dyestuffs manufacture.

Explosive manufacture or storage.

- Fat rendering.
- Fertilizer manufacture.
- Flour and grain milling.
- Gas (illuminating or heating) manufacture or storage in excess of 1,000 cubic feet.
- Glue, size or gelatine manufacture.
- Ice manufacture.
- Incineration or reduction of garbage, offal, dead animals or refuse.
- Junk, scrap iron, scrap paper or rag storage or baling.
- Lamp black manufacture.
- Leather and leather good manufacture.
- Lime, cement or plaster of Paris manufacture.
- Lumber storage.
- Milk bottling or distribution station.
- Oil cloth or linoleum manufacture.
- Paint, oil, varnish or turpentine manufacture.
- Petroleum refining or storage in excess of 1,000 gallons.
- Printing ink manufacture.
- Pyroxyline plastic manufacture or articles therefrom.
- Raw hides or skins—storage, curing or tanning.
- Rubber manufacture from the crude material.
- Saw or planing mill.
- Shoddy manufacture or wool scouring.
- Slaughtering of animals or fowls.
- Smelting of iron.
- Soap manufacture.
- Starch, glucose or dextrine manufacture.
- Stock yards.
- Stone crushing.
- Stone or monumental works.
- Sugar refining.
- Sulphurous, sulphuric, nitric, or hydrochloric manufacture.
- Tallow, grease or lard manufacturing or refining.
- Tar distillation or manufacture.
- Tar roofing or tar waterproofing manufacture.
- Textile manufactures.
- E. Car barns, foundries, light and power plants and other buildings not classified herein.

F. Amusement parks, armories, baseball parks, bath houses, grandstands, greenhouses, ice houses.

G. Stables.

H. Garages (See also Fire Prevention regulations. Garages accommodating more than two vehicles require a license from the Board of License Commissioners.)

NOTE: This expands the classification of uses in the present building code so as to fit the zone provisions.

Section 6. In Section 16, after "Class E" insert "or F."

NOTE: This makes this section conform to the changes in the previous section.

Use Districts

Section 7. After Section 16 insert the following new sections and renumber all succeeding sections:

"Section 17. For the purpose of regulating and restricting the location of trades and industries and the location of buildings designed for specified uses, the City of Cambridge is hereby divided into three classes of use districts: residence districts, business districts, and unrestricted districts; as shown on the zone map which accompanies this ordinance and is hereby declared to be part thereof. The use districts designated on said map are hereby established. The use district designations and map designation rules which accompany said zone map are hereby declared to be part thereof. No building, structure or premises shall be erected or used for any purpose other than a purpose permitted in the use district in which such building or premises are located.

In a residence district no building shall be erected other than a building, with its usual accessories, arranged, intended or designed exclusively for one or more of the following classes of use, as defined in Section 15:

(1) Residence Buildings A, B, C, D.

(2) Public Buildings A, B, C, D.

(3) Business Buildings F

or for (4) Garages for not more than two motor vehicles with no space for rent for commercial vehicles.

(5) College, University, or Technical School Buildings and buildings accessory to them.

(6) Accessory Buildings not over one and one-half stories

high on the same lot with any of the above Residence or Public Buildings,

provided that, on a street occupied by a street-car tracks, between a business building of Class A or B, as defined in Section 15, and an intersecting street nor more than 100 feet distant from such building or between two such business buildings of Class A or B not more than 100 feet apart, a business building of Class A or B not extending nearer to nor farther from the street occupied by street-car tracks, nor higher, than such building or either of them shall not be excluded.

In a residence district no building or premises shall be used for any use other than a use above specified for which buildings may be erected, and for the accessory uses customarily incident thereto, unless heretofore so used. The term accessory use shall not include a business outside the building to which it is accessory or which occupies a total floor area in excess of twenty-five per cent. of the floor area of one story of such building, or which by reason of the appearance of the building or premises, or the emission of odor, smoke, dust or noise or in any other way is objectionable or detrimental to the residential character of the neighborhood or which involves features in design not customary in buildings for the above uses or any structural alteration of the building.

NOTE: This will permit ordinary home businesses, such as doctors, dentists, etc.

Where any portion of a residence district lies within the boundaries of a building district four, as designated on the zone map, no building in such portion of a residence district shall be used or erected which is arranged, intended or designed to be used for any one or more of the following classes of use as defined in Section 15:

(1) Residence Buildings B, C, D.

(2) Public Buildings A.

(3) Business Buildings F, except Greenhouses,

provided that between two multiple dwellings not more than 100 feet apart, measured along the street and excluding from such measurement the width of any intervening street, a multiple dwelling for not more than three families and with a street or a yard of the required width on each side shall not be excluded.

In a business district no building or premises shall be used, and no building shall be erected which is arranged, intended, or

designed to be used for any one or more of the following classes of use as defined in Section 15:

Business Buildings D, E.

In a business district no building or premises unless heretofore so used shall be used, and no building shall be erected, which is arranged, intended or designed to be used for any trade, industry or use that is noxious or offensive by reason of the emission of odor, dust, smoke, gas or noise; but car barns or places of amusement shall not be excluded.

Where any portion of a business district lies within the boundaries of a building district three or four as designated on the zone map no building in such portion of a business district shall be used or erected which is arranged, intended or designed to be used for any kind of manufacturing other than the manufacture of products the major portion of which are to be sold at retail on the premises by the manufacturer to the ultimate consumer.

No use permitted in a residence district by this section shall be excluded from a business district.

In an unrestricted district a building may be erected or used for any purpose in conformity with the provisions of this ordinance and other existing ordinances and laws and regulations.

NOTE: This establishes use districts as described in the report.

Existing Uses

“Section 18: In any building or premises any lawful use existing therein at the time of the passage of this ordinance or of any amendment hereto may be continued therein, although not conforming to the regulations of the use district in which it is maintained, or such use may be changed or converted or extended throughout the building, provided, in either case, that no structural alterations, except as required by then existing laws and ordinances, are made therein and no new building is erected; and provided that in a residence or business district no building or premises unless now devoted to a use that is by Section 17 prohibited in a business district shall be converted to such use.

No existing building designed, arranged, intended or devoted to a use not permitted by this ordinance in the district in which such use is located shall be enlarged, extended, reconstructed or structurally altered unless such use is changed to a use permitted

in the district in which such building is located; except that such building may be reconstructed or structurally altered to an extent not greater than fifty per cent. of the value of the building, exclusive of foundations, for the purpose of continuing therein, without any extension thereof, a lawful use existing therein, at the time of the passage of this ordinance, and such use may be continued therein, although not conforming to the regulations of the use district in which it is maintained.

NOTE: This permits the continuance of any existing use even though not conforming to the district in which it is placed, but restricts the expansion of such non-conforming uses. See, however, the next section.

Powers of Board of Appeal

“Section 19: The Board of Appeal may, in appropriate cases, after public notice and hearing, and subject to appropriate conditions and safeguards, determine and vary the application of the use district regulations herein established in harmony with their general purpose and intent where such provisions or a requirement of the Superintendent would cause manifest injustice, as follows:

(a) Permit the extension of an existing building and the existing use thereof upon the lot occupied by such building or upon contiguous land in the same ownership at the time of the passage of this ordinance or permit the erection of an additional building upon a lot occupied at the time of the passage of this ordinance by a commercial or industrial establishment and which additional building is a part of such establishment;

(b) Where a use district boundary line divides a lot in a single ownership at the time of the passage of this ordinance, permit a use authorized on either portion of such a lot to extend to the entire lot, but not more than twenty-five feet beyond the boundary of the district in which such use is authorized;

(c) Permit the extension of a building into a more restricted district under such conditions as will safeguard the character of the more restricted district;

(d) Permit the restoration subject to other provisions of law of a building partly or wholly destroyed by fire, explosion, act of God or act of the public enemy;

(e) Permit in a residence district a central telephone exchange or any building or use in keeping with the uses expressly enumerated

in Section 17 as the purposes for which buildings or premises may be erected or used in a residence district.

NOTE: This permits the Board of Appeal to administer the use provisions so as not to cause unnecessary hardship.

The Board of Appeals may, subject to the action of the Board of License Commissioners, permit in a residence district a garage for more than two motor vehicles and if so specified with space for rent for commercial vehicles, but in no case with repair facilities, provided there are on file with the Board the written consents of the owners of seventy-five per cent. of the area of the property within 500 feet of the center of the lot on which the garage is proposed to be erected, excluding such lot and excluding any property not abutting on the same street or alley or one of them and not within the same block bounded by public ways more than twenty feet wide."

Section 8. In Section 19, change headings to conform to expansion of Section 15, and insert "Business Buildings H (Garages). See Fire Prevention Regulations."

NOTE: This is a perfecting provision.

Occupancy Permits

Section 9. In Section 201 for the first sentence substitute "It shall be unlawful to use or permit the use of any building or premises or part thereof hereafter created, erected, changed or converted wholly or partly in its use or structure until a permit for occupancy to the effect that the building or premises or the part thereof so created, erected, changed or converted and the proposed uses thereof conform to the provisions of this ordinance shall have been issued by the Superintendent. In the case of such buildings or premises it shall be the duty of the Superintendent to issue a permit for occupancy within ten days after a request for the same shall be filed in his office by any owner of a building or premises affected by this ordinance, provided said building or premises, or the part thereof so created, erected, changed or converted, and the proposed use thereof, conforms with all the requirements herein set forth. Upon written request from the owner, the Superintendent shall issue a permit for occupancy for any building or premises existing at the time of the passage of this resolution certifying after

inspecting the use of the building or premises and whether such use conforms to the provisions of this ordinance."

NOTE: This strengthens the provisions for occupancy permits, so as to insure carrying into effect the zoning provisions.

ARTICLE III. BULK REGULATIONS

Section 10. Change "Division 3" to "Division 7," and insert it before present Section 19.

NOTE: This is done so as to bring all the provisions as to use and bulk together.

Section 11. Omit "Division 5." Insert the present Section 17 after present Section 18.

NOTE: This division on Building Heights is absorbed in new Division 4, Building Districts, where it now belongs.

Building Districts

Section 12. For present Section 18, substitute: "For the purposes of this ordinance, the City of Cambridge is hereby divided into four classes of building districts, designated building districts one, two, three and four respectively; as shown on the zone map which accompanies this ordinance and is hereby declared to be part hereof. The building districts designated on said map are hereby established. The building district designations and map designation rules which accompany said zone map are hereby declared to be part thereof. No building or part of a building shall be erected and no existing building shall be altered, enlarged or rebuilt, except in conformity with the regulations herein prescribed for the districts in which the building is located."

NOTE: This establishes bulk districts as described in the report.

Throughout the present ordinance, for the words "district two," wherever they occur, substitute "districts two, three and four."

NOTE: The present ordinance provides for two classes of districts, a fire district (1) and the rest of the city (2).

Building Heights

Section 13. In the present Section 17, insert before the first word: "In building districts one." Omit the word "except" after "in any case" and insert:

"In building districts two, no building or part thereof shall be erected to a height exceeding two times the width of the widest street on which the building stands, measured from the face of any such part of the building to the line of the street on the other side, nor exceeding six stories or eighty feet in any case.

In building districts three, no building or part thereof shall be erected to a height exceeding one and one-half times the width of the widest street on which the building stands, measured from the face of any such part to the line of the street on the other side, nor exceeding four stories or sixty feet in any case, provided that a building not used in any part as a dwelling for more than one family and not within one hundred feet of any street or property line or, if within an unrestricted district as designated on the zoning map, not within one hundred feet of a residence district or of the nearer side of a street adjacent to a residence district may be erected to any height permitted in building districts two.

In building districts four, no building or part thereof shall be erected to a height exceeding the width of the widest street on which the building stands, measured from the face of any such part to the line of the street on the other side, nor exceeding two and one-half stories or forty feet in any case, provided that any building designed for and used exclusively as a private dwelling or to be located between two three-story buildings other than private dwellings and not more than one hundred feet apart, measured along the street line and excluding from such measurement the width of any intervening street, may be erected to a height of three stories.

The provisions of this section shall not apply to:"

NOTE: This establishes building heights in the respective districts.

Section 14. After the present section 17 (as transferred) insert a new section as follows:—

"Section . On streets less than twenty feet wide the same height regulations shall be applied as on twenty-foot streets.

A corner building shall be governed by the height regulations provided for the wider street for 100 feet from the side of such wider street, measured at right angles to such side."

NOTE: These clauses apply the ordinance equably to special cases.

Area Regulations.

Section 15. Before present Section 19, insert "Division 5. ADDITIONAL SPACE REQUIREMENTS FOR DWELLINGS" and present Sections 207-212, 215, 216 and:

"Division 6. AREA REGULATIONS.

"Section . In building districts one and two any building may be erected so as to occupy such part of the lot on which it stands as is permitted by other sections of this ordinance, other ordinances, laws and regulations.

NOTE: This brings all the provisions on areas together.

In building districts three, no building may be erected so as to produce rear yards with less than the following minimum dimensions:

Height of Building other than a dwell- ing, in feet:	Height of dwelling in habitable stories	Depth of yard in feet
10	1	15
20	2	15
30	2½	15
40	3	17
50	4	19
60	-	21

The depth of rear yard for a lot less than sixty feet deep may be reduced five feet.

The depth of rear yard for a corner lot may be reduced to two-thirds the depth required for an interior lot for a length not exceeding thirty feet.

No yard shall be required behind a dwelling erected on a corner lot adjoining a lot less than one hundred feet deep and running through from street to street or from a street to an alley or open passageway not less than twenty feet in width.

No yard shall be required behind a dwelling erected on a lot less than one hundred feet deep and running through from street to street or from a street to an alley or open passageway not less than twenty feet in width.

If a dwelling is built on a lot with another dwelling, and if the rear yard behind the rear dwelling does not have access directly to a street, there shall be a passageway not less than fifteen feet wide leading from the yard between the two buildings directly to a street.

In building districts three, no side yard is required, but if any side yard is left between a building and a lot line its width shall be in accordance with the following table of minimum dimensions:

Height of Building other than dwell- ing, in feet:	Height of dwelling in habitable stories	Width of yard, in feet.
10	1	6
20	2	6
30	2½	6
40	3	7
50	4	8
60	-	9

If the length of the building measured along the side yard is in excess of forty feet, then the width of the side yard noted above shall be increased one foot for every ten feet or portion thereof of such excess.

In building districts three, outer courts shall be in accordance with the following table of minimum dimensions:

Height of Building other than dwell- ing in feet	Height of dwell- ing in habita- ble stories	Outer Court between wings	Outer Court on lot line
10	1	10	7
20	2	12	8
30	2½	14	9
40	3	16	10
50	4	18	11
60	-	20	12

If the length of an outer court is in excess of three times its required width, then the width shall be increased for an outer court between wings by two feet for every ten feet thereof of such excess, and for an outer court on lot line by one foot for every ten feet of such excess.

In building districts three, inner courts shall be in accordance with the following table of minimum width and areas:

Height of building other than dwell- ing in feet:	Height of dwell- ing in habitable stories:	Inner Court not on lot line:		Inner Court on lot line:	
		Width in ft.	Area sq. ft.	Width in ft.	Area sq. ft.
10	1	12	200	7	150
20	2	14	300	8	200
30	2½	16	400	9	250
40	3	18	500	10	300
50	4	20	600	11	350
60	-	22	700	12	400

In building districts three, no part of a building above the first floor, except open railings, shall be erected in a residence district as designated on the zone map within twenty-five feet of the center line of any abutting street, nor within five feet of the side line of any street, provided that on no lot existing at the time of the passage of this ordinance shall either the width or length of the portion that may be built upon be reduced to less than forty feet by this requirement and provided further that between existing buildings not more than one hundred feet apart no building need by this requirement be erected farther from the street line than the mean of their distances from such street line.

NOTE: This establishes somewhat better conditions of light and air in building districts three, than in building districts one and two.

In building districts four, there shall be, except as otherwise provided, immediately behind every building in the rear of a lot a yard extending across the entire width of the building.

In building districts four, no building may be erected so as to produce rear yards with less than the following minimum dimensions:

Height of Building other than a dwell- ing, in feet:	Height of dwell- ing in habitable stories:	Depth of yard in feet:
10	1	20
20	2	20
30	2½	20
40	3	22

The depth of rear yard on a lot less than sixty feet deep may be reduced to one-third of the lot depth.

The depth of rear yard for a corner lot may be reduced to three-fourths of the depth required for an interior lot for a length not exceeding thirty feet.

No yard shall be required behind a building erected on a corner lot adjoining a lot less than fifty feet deep and running through from street to street, or from street to an alley or open passageway not less than twenty feet in width.

No yard shall be required behind a building erected on a lot less than fifty feet deep and running through from street to street or from a street to an alley or open passageway not less than twenty feet in width.

If a building is built on a lot with another building, and if the rear yard behind the rear building does not have access directly to a street, there shall be a passageway not less than twenty feet wide leading from the yard between the two buildings directly to a street.

In building districts four, there shall be a side yard on the same lot with every building, unless it occupies a street corner. No side yard shall have less than the following minimum dimensions:

Height of building other than dwell- ing, in feet:	Height of dwelling in habitable stories:	Width of yard in feet:
10	1	7
20	2	7
30	2½	7
40	3	8

In dwellings in building districts four, every room, kitchenette, and alcove, except bathrooms and watercloset compartments, shall have a window or windows of a total clear area of not less than one-eighth of the area of the room, so located as to light the room properly, opening upon a street or yard located upon the same lot and of the dimensions specified in this division.

Courts shall be in accordance with the minimum dimensions and areas required for buildings in building districts three.

In bulding districts four no part of a building above the first floor, except open railings, shall be erected within thirty feet of the center line of any street, nor, if in a residence district as designated on the zone map, within ten feet of the side line of any street, provided that on no lot existing at the time of the passage of this ordinance shall either the width or length of the portion that may be built upon be reduced to less than thirty-five feet by this requirement and provided further that between existing buildings not more than one hundred feet apart no building need by this requirement be erected farther from the street line than the mean of their distances from such street line."

NOTE: This establishes really adequate light and air for buildings in districts four.

Section 16. Insert after the foregoing new section present Section 206. In present Section 206, change the word "dwelling" wherever it occurs to "building" in each case. Add at the end of present Section 206:

“No rear yard shall be so raised in level so to be more than two feet above the first story floor.”

NOTE: These perfect the application of bulk restrictions.

Section 17. Before present Section 19, insert present Division 3, which will include present Section 19 at its end.

NOTE: This brings all provisions regarding classification of construction together.

Section 18. In present Section 19, next to the last line, after “story,” substitute “if it comes under the definition of habitable story in Section 9.”

Throughout tables, change “District 2” to “Districts 2, 3, and 4.”

NOTE: These make the ordinance conform with previous changes.

Section 19. Change Division 30 to Division 29.

In Section 218, change the word “division” in the ninth line to “ordinance.”

After present Section 233, insert present Division 7 as “Division 30.”

After present Section 242, insert present Division 29 as “Division 32.”

NOTE: These changes bring provisions of similar character together.

ARTICLE IV. APPLICATION OF ORDINANCE

Buildings Under Way.

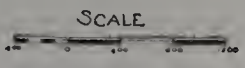
Section 20. Nothing herein contained shall require any change in the plans or construction or designated use of a building for which a building permit has been heretofore issued, or plans for which are on file with the Superintendent of Buildings at the time of the passage of this ordinance, and a permit for the erection of which is issued within two months of the passage of this ordinance, and the construction of which in either case, shall have been diligently prosecuted within six months of the date of such permit, and the ground story framework of which, including the second tier of beams, shall have been completed according to such plans, as filed within two years from the date of the passage of this ordinance.

Nothing in this ordinance shall prevent the restoration of a wall declared unsafe by the Superintendent.

CITY OF CAMBRIDGE

ZONE MAP

TO ACCOMPANY BUILDING CODE
AS AMENDED 1922.



MAP DESIGNATION RULES

District boundaries are indicated by full lines.
Boundary lines are unless otherwise indicated either center lines or side lines of streets, highways or railroads, or lines perpendicular or parallel to such lines or such lines extended. Lines within blocks are unless otherwise indicated, 100 feet distant from the less restricted side of the block. Points of common intersection.

DESIGNATION OF USE DISTRICTS	BUILDING DISTRICTS			
	1	2	3	4
RESIDENCE (R)	R-1	R-2	R-3	R-4
BUSINESS (B)	B-1	B-2	B-3	B-4
UNRESTRICTED (U)	U-1	U-2	U-3	U-4

CAMBRIDGE PUBLIC LIBRARY

1921-22

TRUSTEES

CHARLES F. J. McCUE (Of the School Committee)	Term expires January, 1923
EDWARD P. COLLIER	Term expires January, 1924
ROBERT W. YOUNG	Term expires January, 1924
ALBERT E. LYNCH	Term expires January, 1925
EDWARD H. REDSTONE	Term expires January, 1925
JOHN A. BUTLER	Term expires January, 1923
NELLIE F. CROWLEY	Term expires January, 1923

CHAIRMAN

Rev. John A. Butler

SECRETARY

Nellie F. Crowley

TREASURER

Albert E. Lynch

LIBRARIAN

Thomas Harrison Cummings

CENTRAL LIBRARY

Broadway and Trowbridge Street

The central library is open daily, except holidays, from 9 A. M. to 9 P. M.; the children's room, from 9 A. M. to 6 P. M. On Sundays the central library is open to readers only, from 2 to 9 P. M.; the children's room from 2 to 6 P. M. From June 15 to September 15 the central library and children's room are closed on Sundays.

BRANCH LIBRARIES

Open Week Days Only

EAST CAMBRIDGE BRANCH, Fourth Street.

Open from 9 A. M. to 9 P. M.

NORTH CAMBRIDGE BRANCH, 2101 Massachusetts Avenue.

Open from 9 A. M. to 9 P. M.

CAMBRIDGEPORT BRANCH, 744 Massachusetts Ave., cor. Pleasant St.

Open from 9 A. M. to 9 P. M.

CAMBRIDGE FIELD BRANCH, the Shelter, Cambridge Field.

Open from 2 P. M. to 9 P. M. Saturdays, 9 A. M. to 9 P. M.

MT. AUBURN BRANCH, Haggerty Schoolhouse, Cushing St.

Open Mondays and Wednesdays, 2 to 9 P. M. Saturdays, 1 to 9 P. M.

REPORT OF BOARD OF LIBRARY TRUSTEES

To the Honorable, the City Council of the City of Cambridge.

Gentlemen: Due to the earnestness and efficiency of the librarian and his staff, the past year has been a satisfactory one, and the report of the librarian shows a substantial gain in circulation. This has been accomplished in spite of a totally inadequate appropriation for the Central Library and the branches.

While the main building may be compared favorably with that of any city of corresponding size, the condition of the branches is deplorable. They are located in antiquated and unattractive quarters, which cannot possibly meet the demands of the sections that they serve.

The Central Square Branch, for example, which should present a splendid opportunity for the circulation of constructive reading matter, has been for years merely a make-shift. And the same comment applies to the East and North Cambridge branches.

An increased appropriation is required if the service of the library and its branches are to be available for the great mass of the people of the city. For that reason, the attention of the City Council is called to the urgency of this problem, with the hope that prompt measures may be taken for its solution.

A request has been made for better lighting of the library grounds and their approaches. It is desired that the City Council take action to dispel the darkness that surrounds the building in the evening.

The position in the community of the modern public library is one of tremendous importance. It is the keystone to the arch of every educational program, and the demands upon it are constantly increasing. Without its co-operation all forms of educational extension are handicapped, and the work of the schools is seriously crippled.

It is futile for the teacher to attempt to instil in his pupils a love of reading if the richest material is not at their disposal after graduation.

The Librarian's report is appended.

JOHN A. BUTLER,
EDWARD P. COLLIER,
NELLIE F. CROWLEY,
ALBERT E. LYNCH,
CHARLES F. J. McCUE,
EDWARD H. REDSTONE,
ROBERT W. YOUNG.

LIBRARIAN'S REPORT

To the Board of Trustees.

Gentlemen: I submit herewith the sixty-fourth annual report of the Cambridge Public Library, a department of the municipal government of which the citizens of that city may be justly proud.

Considering the funds available during the past year for carrying on all the activities of the library, the year just closed has been a successful one and the services rendered have been far reaching. A total of 413,452 books was circulated for home use at the Central Library and Branches, showing a net gain in circulation of 9,214.

All the departments of the library have made substantial gains as indicated by the figures taken from the circulation records of the year.

The records also show that 5,410 new borrowers were added during the year making the total registration to date, within the last four years, 42,074.

While it is pleasing to report these gains in the registration and circulation records, they are valuable only as one index of the library's usefulness.

The library is valuable not only for the number of volumes it circulates, but also for the way it touches every human interest in the city. It is easy to erect library buildings, and it is easy to stack up books in large quantities, but it is quite another thing to reach out to every human activity of the community in which it stands. It is this feature that characterizes the Cambridge Public Library, makes it unique and causes it to stand out prominently among the public libraries of the state as distinctively efficient and useful to the residents of Cambridge.

The Central Library building was erected by the city in 1889 as a gift of the late Frederick H. Rindge.

The land together with the buildings erected thereon represents a valuation today of nearly half a million dollars. With the Cambridge High and Latin Schools on one side and the Rindge

Technical Manual Training School on the other, they constitute together an educational unit of priceless value to the city.

Carlyle says, "the true university of these days is a collection of books," and the city, realizing that such an institution was a good investment, as well as a fine business asset (since the city was bound to get its money's worth out of it sooner or later) has since met Mr. Rindge in his gifts, by generously appropriating money for the purchase of books, furniture, equipment, etc., and also making additional appropriations for the current maintenance of the Library.

A VAST STOREHOUSE OF BOOKS

Today, there can be found in the Cambridge Public Library over 120,000 rare, valuable, and useful books representing many phases of industry, reference books, handbooks, manuals, and ordinary books touching on many kinds of subjects and dealing with every trade and profession in which men have worked. Some of them tell of successes and some of failures. But all of them teach the reader who consults them how best to succeed in his chosen work. There are books to suit all types of men, women and even children; from those who are highly specialized to those who are just beginning to learn their trade or profession.

Most people in the community want to live happy and useful lives and the right sort of books can help them greatly to do this. Books enlarge one's knowledge and experience. They tell what men have done, their successes and their failures, they inspire to right action and sound judgment, and they also provide the recreation of contact with the most interesting works of literature. Of course one cannot know personally all the great men and women of antiquity, nor even of our present day and generation. But all, through books, may know most intimately and in a general way the great people of all times and may know them better than they know their own neighbors even. The library will furnish this kind of information for the mere asking.

Practical ideas on the better management of the home, tending toward improved sanitation, elimination of waste, better environment for the children and general improvement in all household conditions are quickly available in books devoted to "Home Science" which can be easily found in public libraries. A thorough acquaintance with the Modern Science of

Housekeeping, will do much to solve many of the daily problems confronting women in their homes and lighten their burdens that often are extremely heavy. Books on religion and philosophy for the student, books to aid the business man, technical books for the professional man, books for the laboring man, are often useful in helping him to become more efficient in his trade or calling.

All these books tend to further the great movement for adult self-education which is after all the great purpose of the library: books that will stamp out illiteracy and will aid in the work of educating our foreign-born in the use of the English language and help them to a proper understanding of American history and American institutions. These are the treasures that the library can offer and that the public might profit from, in this, their great university, if they are so disposed.

Moreover, besides their educational value, these books give unfailing pleasure. Brilliant essays, dramatic histories; masterful biographies, thrilling fiction, are all keenly enjoyed by old and young. By combining education with recreation and amusement they bring golden hours of sunshine and sweet, pleasant memories, into our daily lives. Other forms of amusement are fleeting and very transitory, but books are lasting and permanent in their value. They are the only friends that will never tire of you and who will always be helpful and sympathetic.

OPPORTUNITY FOR SELF-EDUCATION OFFERED TO ALL

Reference Work

Another important idea of the value of the library as an educational institution is the extensive use that can be made of the reading and reference facilities. It is with considerable pride and satisfaction we look back over our record ending March 31, 1922, and realize how greatly improved and deeply appreciated has been the service in the reference department. Above all, there has been a constantly growing circle of friends and patrons to whom the library owes more than can be told in the way of loyal support and appreciation.

It is not uncommon to find the reading and reference rooms taxed to their full capacity. This is especially true of afternoons and evenings when the reference work is particularly heavy. Hundreds of readers each day when the schools are in session

throng the library halls, either to consult the reference books or to withdraw books for home use. During the evening, it helps the men and women who are otherwise employed during the day and who study business law and accountancy at night. Also the technical students who wish to go higher in their studies and therefore must prepare for examinations. A vast store of technical information is available in the library at all times and its widespread use tends to eliminate many sources of waste and useless effort in the business world. Young men entering business are helped by books on office management, advertising, lettering, etc. Engineers, firemen, railway employees, all come to the library interested in their particular fields and our aim and effort to promote good reading and universal self-education among them through books is creating a strong public sentiment in favor of the library, and is making it very popular.

The library takes over three hundred magazines, papers, and periodicals, for use in the reading rooms of the main library and branches. Monthlies, weeklies and daily papers, domestic and foreign, are among those used and consulted by a large body of readers who daily frequent the newspaper rooms.

Speculation in "wildcat" stocks which has caused enormous losses in the last few years, is being closely checked not only by police investigations but also by public libraries. Thousands of dollars have been diverted from spurious or doubtful enterprises and much misery spared by information obtained from books on library shelves dealing with the fundamentals of a proposition which "promised" large and quick returns on the investment, but failed to realize.

A man in a middle western city recently lost a large sum by investing in a gasoline producing proposition without informing himself of its feasibility. Another saved himself thousands by going to the public library and reading about the technology of gasoline making. Enormous amounts of money could be saved daily by persons in every walk of life if they would only obtain authentic information before they undertake the particular proposition in which they are interested.

Today the library is no longer known as an institution for the sole supply of fiction and novel reading, but has now become a university extension course for all classes in the community. The greatest handicap it suffers from in this work, has been the

lack of funds with which to furnish the particular books demanded, in the quantities in which they are needed.

The reference section is often inadequate to meet the number and variety of questions that are asked each day and evening. The number of readers demanding assistance in the reference room from March 25, 1921 to March 24, 1922, was recorded as 24,386. The number of books taken from the book stack for hall use only was 13,818. The number of questions answered locally at the desk, 6,669. These figures are actually under, rather than over, the totals given, by reason of the physical inability of the reference librarian to keep an accurate record, on account of the constant interruptions. Meanwhile it is safe to say that no department in the library is more deeply appreciated. For besides helping the general reader, a special effort has been made by the librarian to assist parents and teachers in the selection of books for their school children. An important feature of this work with the schools is the regular instruction given in the use of reference books each day during the scholastic year to large classes, both from the Cambridge High and Latin Schools and the Rindge Technical School. The Freshmen are given simple problems in the use of the catalogues and bibliographies, while the upper grade classes are supplied with information regarding the arrangement and cataloging of books, especially familiarizing them with the common reference books—to the end, that all pupils in elementary and secondary schools may learn how to know and love good books. Also that they may learn to supplement their school studies by the additional use of books other than text-books. In a word, that they may learn to use both the school library and the public library intelligently. In fine, the public library is now recognized as a necessary part of public instruction and should be as liberally supported by taxes as are the public schools, and for the same reasons. Today the school system that fails to make liberal provision for the use of libraries, fails to do its full duty in not revealing to its scholars the opportunity to know and to use the resources of the public library as a means of self-education after they have left the schools.

It is only by having easy access to books and knowing how to use them properly that the young men and young women of this generation can continue their education after they graduate. Furthermore, a wider reading of the proper kind of books, books

on government, history, social subjects, will tend to promote patriotism and will make also for a broader Americanism in these future citizens of the Commonwealth.

Books are necessary not only to the educational scheme involved, but also to the American idea of progress. They contain mental nourishment, just as essential to growth as physical nourishment. Every year, more and more young men and young women ask themselves how the big executives in industry succeed and make a living. They wonder how banks operate, how corporations function, how the modern office is conducted, how to read a balance sheet, etc. But they do not stop at that. They find this out by going to the public library, and studying the business books that offer a short cut in the direction they want to go.

This year there are more of these ambitious young people than ever before. The reference department of the Cambridge Public Library helps them to find these books and all classes of readers are beginning to realize that the library can be of genuine value to them, especially in this kind of work. They are using the services of the library and should be encouraged to use it more and more. The interests of the library and the reading public are closely related and it will profit both to co-operate in spreading this business and cultural book idea. So we can truthfully say of our reference department that this year has been one, not only of promise but also of great achievement.

. JUVENILE DEPARTMENT

The Children's Librarian reports a steady increase in the work of the juvenile department and also a general improvement in the quantity of the books circulated. The records show that the number of children using the library during the past year was 22,073. The number of questions answered was 2,788, so far as the records could be kept. The attendance at the story hours in the Central Library was 732. The children have read more thoughtful books and books that were helpful in their school work. Many of the older children have now graduated into the reading of good adult books. The registration has increased with the normal growth of the department and the results generally have been both interesting and gratifying.

During the year the department has frequently been consulted by parents and teachers interested in children's reading. Many

lists of books have been prepared in response to special requests. Several book and picture exhibits have been held, the most notable being that for the Children's Book Week in November. All these activities have concluded a very successful year for the department.

BRANCH LIBRARIES

There are, outside the main library, five branches, operating in different sections of the city. Their registered borrowers number 16,132.

The year just closed has been one of steady, healthy, normal growth of the department, and the results generally have been combined circulation to have been 259,293 books. These were all drawn for home use, besides a proportionate number used for reference work in the library building. This circulation represents a little less than two-thirds of the entire circulation of the library organization as a whole. The relative proportion is somewhat startling, but it emphasizes for us anew the great need and importance of cultivating these valuable agencies for the distribution of books in the outlying sections of the city. They are centres of local activities with collections of books ranging from 5000 to 7000 in number. As rapidly as the funds permit, these collections should be increased, in order that the people living in these districts may be given as complete library service as possible.

Probably the most serious problem of these branches is the fact that their book collections being limited have been read through and through. To relieve this situation to some extent, we have shifted many volumes from one branch to another. But the main fact that stands out clearly is that a much larger book fund must be provided for them if these branches are to continue the efficient service they have thus far rendered.

A special appropriation for the purchase of books should be assigned each branch and be included in the annual budget if we are to get ideal conditions in these departments of the library service.

CATALOGUE DEPARTMENT

The total number of books added during the year to the Central library and branches is 5,630, of which 3,656 are new, and 1,974 replacements. The unusual number of books withdrawn, 3,261, makes a net loss to the collection as a whole of 2,631. This

loss covers books destroyed on account of being exposed to contagious diseases, worn out by actual use, lost in circulation, and books reported missing as a result of an inventory taken during the year. The largest withdrawal consists of several thousand volumes of old and useless books most of which have been in the library since its earliest days. It has been necessary to examine carefully all of these books many of which were retained and classified with the general collection. There still remains a large number to dispose of. It is important to continue and complete this work in order to procure much needed space on the shelves for the library's legitimate growth.

VALUABLE GIFTS TO THE LIBRARY

Special mention should be made of the 252 books given to the library during the past year included in the appendix to this report. Included in this collection are standard books of reference, much local history, works of standard authors and some children's books.

The most important gift of all was that of an early sixteenth century Latin Bible, known in history as the Ubelius Bible, published in 1527 and the first Protestant version of the Latin Vulgate, very old and very rare. A careful survey of the libraries of the world reveals only three known copies in existence, besides the Cambridge one which is a perfect copy. Coppinger names one in the British Museum at London, one in the National Library at Paris, and one in the Royal Library, Stuttgart. It is hoped that this gift will serve as a nucleus for a much larger collection of Bibles and book rarities which the Cambridge Public Library plans to make in the future. Such material if carefully preserved and yet made available to those interested, will enrich the Cambridge Public Library and help to make it better known throughout the world. In addition to this great outstanding gift, a collection of valuable paintings, representing several thousands of dollars in value, has been donated by a private benefactor, Mrs. B. Martell of Somerville, Mass.

We have received also a beautiful marble bust of Richard Wagner, the great German composer, and a large life size portrait in oils, of Elias Howe, the original inventor of the sewing machine, who was a resident of Cambridge from his early boyhood until his death. Also a group painting of the family of the

late William E. Saunders destined to be hung in the W. E. Saunders alcove of local history.

BETTER CITIZENSHIP

From January 1 to March 31, 1922, the Americanization classes under the direction of the Massachusetts State Board of Education, in the Cambridge High School, were transferred to the library. The work was continued under the direction of Mrs. Rondeau, the official head of the Americanization work in Cambridge, in co-operation with the general routine work of the library.

The educational work was planned on the basis of making these students familiar with the library as an educational institution. Good books make good citizens, but to be a good citizen one needs to be well grounded in the ideals of American democracy and history, and also well informed on current and political affairs. This need demands a continuing education from the school to the library, which applies not only to new Americans but to all Americans as well.

Thousands of American born citizens do not come in contact with good books, and yet many of the social and industrial problems that are now agitating the country could be more readily solved if the public would take into consideration the powerful agency for self-education and self-culture that the public library really is.

The Cambridge Public Library circulates books that are truly American and daily answers questions that have to do with present social, political and industrial problems. It provides groups of young men and young women who have to leave school early and are deprived of the opportunity to get a higher education with a chance for self-education along the lines of University extension courses. It helps the schools by supplying this form of continuous education. It help the factories by supplying technical books, it helps business by supplying business information. In a word, it co-ordinates endeavor whenever needed along educational lines in every part of the city.

Working hand in hand with the schools, churches, business, industry, the arts and sciences and nearly every form of human endeavor, the library thus becomes a clearing house for all sorts of information, and a more powerful factor in the life of the community.

OTHER ACTIVITIES

The birth of the American flag was the central feature of the City of Cambridge observance of Patriot's Day, April 19 this year, based upon the historical fact that the first flag of the American Colonies was designed in Cambridge and was first unfurled there by General George Washington in 1776.

The exercises took place on the Public Library Grounds, under the auspices of the Cambridge Historical Society, His Honor Mayor Quinn presiding. Including music by the Harvard University Band, there was community singing, and a flag pageant by the pupils of the Cambridge High and Latin Schools and the Rindge Technical School, with the veterans of the Civil, Spanish and World Wars as special guests. This was followed by an address on "The Birth of the Flag in Cambridge," given by T. Harrison Cummings, the Librarian.

On October 12, 1921, Cambridge celebrated the seventy-fifth anniversary of its incorporation as a city, with a three days celebration. The library's contribution was a mass meeting and flag pageant in Sander's Theatre that marked the observance of the second day's celebration. There were addresses by William Roscoe Thayer, President of the Cambridge Historical Society, Prof. Albert Bushnell Hart, Congressman Dallinger, Judge Leveroni and T. Harrison Cummings, with a fine concert by the Harvard Glee Club.

The library was also represented on the third day in the grand parade, by a float entitled "Columbia Upholds the Torch of Learning." The Columbia parts were taken by active members of the library staff, the costumes and symbolism attracting much favorable comment.

Respectfully submitted,

T. HARRISON CUMMINGS,

Librarian.

LIBRARY STATISTICS**April 1, 1921—March 31, 1922****Number of Card Holders**

Borrowers registered during year (Central library)	2,564
Total number of borrowers (Central library)	25,942

Branch Libraries

Borrowers registered during year (North Cambridge Branch).....	970
Total number of borrowers (North Cambridge Branch)	4,683
Borrowers registered during year (East Cambridge Branch)	322
Total number of borrowers (East Cambridge Branch)	2,298
Borrowers registered during year (Cambridgeport Branch)	900
Total number of borrowers (Cambridgeport Branch)	5,862
Borrowers registered during year (Cambridge Field Branch)	480
Total number of borrowers (Cambridge Field Branch)	2,470
Borrowers registered during year (Mt. Auburn Branch)	174
Total number of borrowers (Mt. Auburn Branch)	819

At Central and Branches

Total number of borrowers (those who have registered for new cards within four years)	42,074
---	--------

Accessions**Central Library**

Added by purchase (new books)	1,797
Added by purchase (replacements)	723
Added by gift	316
	<hr/>
	2,836

Branch Libraries

Added by purchase (new books)	1,340
Added by purchase (replacements)	1,047
Added by transfer from Central Library	204
Added by gift	203
	<hr/>
	2,794
	<hr/>
	5,630
Withdrawn: Discarded	5,317
Missing	2,944
	<hr/>
	8,261
Loss	2,631
In the Library April 1, 1921	121,476
In the Library April 1, 1922	118,845

Distributed as follows:—

Central Library	94,977
North Cambridge Branch	7,304
East Cambridge Branch	5,637
Cambridgeport Branch	5,439
Cambridge Field Branch	3,012
Mount Auburn Branch	2,476
	<hr/>
	118,845

ADULT CIRCULATION

	Central Library	North Cambridge Branch	East Cambridge Branch	Cambridgeport Branch	Cambridge Field Branch	Mount Auburn Branch
General Works	278	246	4	31	5	15
Philosophy	1,716	454	16	237	24	69
Religion	1,067	1,152	59	147	20	73
Sociology	4,228	982	176	654	216	148
Philology	655	417	52	103	191	333
Science	1,829	1,097	45	227	49	102
Useful Arts	3,705	1,235	98	527	147	162
Fine Arts	2,368	1,196	72	278	62	107
Music	1,226					
Literature	8,093	1,588	1,187	1,318	322	297
History	7,978	2,269	440	1,485	509	533
Biography	4,546	1,228	105	556	99	305
Magazines	1,656	3,341	1,754	1,136	529	1,679
Fiction	67,712	51,274	15,003	34,598	15,349	9,420
Total	107,057	67,379	19,031	41,297	17,522	13,243

JUVENILE CIRCULATION

General Works	82	64	17	358	6	
Philosophy	52	32	17	7	23	15
Religion	379	451	180	205	334	130
Sociology	987	605	558	854	882	281
Philology	7			3		1
Science	324	683	457	547	792	251
Useful Arts	394	629	344	372	376	198
Fine Arts	387	698	192	315	378	252
Literature	748	803	534	724	822	469
History	1,589	2,050	2,234	2,475	2,519	790
Biography	497	654	252	565	468	342
Magazines	69	698	363	217	227	781
Fiction	16,587	17,479	16,509	13,427	17,468	6,444
Total	22,102	24,846	21,657	20,069	24,295	9,954

Total Circulation	388,452
Estimated circulation in schools and agencies	25,000
Grand Total	413,452

GENERAL SUMMARY

Circulation			
Central			
Adult			
		Total	
Fiction	67,649		
Non-fiction	39,408	107,057	Gain 3,742
Juvenile			
Fiction	16,578		
Non-fiction	5,515	22,102	Loss 2,642
		<hr/>	
		129,159	
		Total gain Central, 1,100	
North Cambridge Branch			
Adult			
Fiction	52,174		
Non-fiction	15,195	67,369	
Juvenile			
Fiction	17,479		
Non-fiction	7,367	24,846	Gain 5,644
		<hr/>	
		92,215	
Cambridgeport Branch			
Adult			
Fiction	34,598		
Non-fiction	6,699	41,297	
Juvenile			
Fiction	13,427		
Non-fiction	6,642	20,069	Gain 742
		<hr/>	
		61,366	
East Cambridge Branch			
Adult			
Fiction	15,023		
Non-fiction	4,008	19,031	
Juvenile			
Fiction	16,509		
Non-fiction	5,148	21,657	Gain 2,739
		<hr/>	
		40,688	
Cambridge Field Branch			
Adult			
Fiction	15,349		
Non-fiction	2,119	17,468	
Juvenile			
Fiction	17,468		
Non-fiction	6,851	24,319	Loss 817
		<hr/>	
		41,787	
Mount Auburn Branch			
Adult			
Fiction	9,420		
Non-fiction	3,823	13,243	
Juvenile			
Fiction	6,444		
Non-fiction	3,510	9,954	Loss 34
		<hr/>	
		23,197	

	Total Circulation	Volumes in Library	Card Holders April 1, 1922
1 Central	129,159	95,370	25 942
2 North Cambridge Branch.....	92,215	7,304	4,683
3 East Cambridge Branch	40,688	5,637	2,298
4 Cambridgeport Branch	61,366	5,439	5,862
5 Cambridge Field Branch.....	41,787	3,012	2,470
6 Mt. Auburn Branch	23,197	2,476	819
	<hr/> 388,412	<hr/> 119,238	<hr/> 42,074

Cataloguing

Central Library

Titles (shelf cards)	2,103
New volumes catalogued	1,866
Volumes re-catalogued	931
Library of Congress cards prepared	6,195
Cards typed	1,332
Cards replaced	2,236
Miscellaneous cards	763

Branch Libraries

Titles (shelf cards)	588
New volumes catalogued	1,496
Volumes re-catalogued	36
Library of Congress cards prepared	3,131
Cards typed	716
Cards replaced	1,084
Miscellaneous Cards	79
Volumes re-bound:	
Central Library	1,386
Branch libraries	2,290
	<hr/> 3,676

Reference Department

Recorded readers	24,386
Recorded questions	6,669
Books from stack charged for use in reference department.....	13,818

Juvenile Department

Recorded readers	22,073
Recorded questions	2,788
Attendance at story hours	733

Books to Outside Agencies

Grade schools	4,027
Branch libraries	1,099
Deposit stations	317

LIBRARY STATISTICS ACCORDING TO FORM ADOPTED BY AMERICAN LIBRARY ASSOCIATION

Annual report for year ended March 31, 1922.

Name of Library: Cambridge Public Library, Cambridge, Mass.

Name of Librarian: Thomas Harrison Cummings.

Date of Founding: 1858.

Population served (latest statistics): 110,000 estimated.

Assessed valuation of city or town: 145,912,972.

Rate of tax levy 29.10%.

Terms of use: Free for lending, free for reference, free to students.

Total number of agencies:

Consisting of—Central Library

Branches 5

Stations 1

Other agencies:

26 schools

4 societies

Number of days open during year (Central Library) 343.

Hours open each week for lending (Central Library) 72.

Hours open each week for reading (Central Library) 79.

INCREASE

Number of volumes at beginning of year	121,476
Number of volumes added during year by purchase	4,907
Number of volumes added during year by gift or exchange	519
Number of volumes withdrawn during year	8,261
Total number at end of year	118,845
Number of volumes in Reference Department (included in total).....	2,483
Number of volumes added during year by binding material.....	177
Number of volumes of fiction lent for home use	282,170
Total number of volumes lent for home use	388,452
Estimated circulation in schools and agencies	25,000

REGISTRATION

Number of borrowers registered during year	5,410
Total number of registered borrowers	42,074
Registration period, years 4.	

Number of newspapers and periodicals currently received:

	Titles	Copies
Newspapers	17	45
Periodicals	113	225

Number of persons using library for reading and study:

(Reference room)	24,386
(Children's room)	22,073

Number of publications issued during year

3

Number of staff, library service

26

Number of staff, janitor service

3

FINANCE

RECEIPTS FROM	
Unexpended balance on funds	
April 1, 1921	\$1,357.03
City tax levy	54,051.89
Endowment funds	1,193.93
Fines, sale paper stock, etc.	2,321.56

Total\$58,924.41

PAYMENTS FOR MAINTENANCE	
Books	\$6,824.12
Books from funds	1,374.79
Periodicals	1,159.67
Binding	2,875.25
Salaries (library service)	28,810.07
Salaries (janitor service)	6,624.16
Rent	1,056.40
Heat	2,284.84
Light	982.88
Permanent improvements and furniture	241.82
Supplies	950.91
Printing	723.89
Telephone	306.65
Transportation, postage express, etc.	386.35
Other maintenance	824.88
Total maintenance	\$54,051.89
Paid to City Treasurer	
Fines, etc.	2,321.56
Balance on funds, April 1, 1922	1,176.17
Grand Total	\$58,924.41

GIFTS

April, 1921—April, 1922.

Volumes

American Academy of Political and Social Science, Philadelphia, Pa.	27
American Congregational Association, Boston	1
American-Irish Historical Society, New York	1
American Library Association, Chicago, Ill.	21
American Unitarian Association, Boston	1
Barnes, Albert Mallard, Cambridge	1
Bartlett, Mrs. John, Cambridge	4
Beethoven Association, New York	3
Benedict, Mrs. Stone, Basle, Switzerland	1
Bernstein, Herman, New York	1
Birmingham Public Libraries, Birmingham, England	1
Boston, Mass.	3
Boston Public Library	1
Brooklyn Public Library	1
Brown, Abbie, Cambridge	5
Bruce, G. A.	1
Burrage, Charles Dana, Boston	1
Butler, E. M., Cambridge	2
Cambridge Historical Society	1
Canadian Commission of Conservation	1
Carnegie Endowment for Advancement of Teaching, New York	1
Carnegie Endowment for International Peace, Washington, D. C.	1
Carnegie Hero Fund Commission, Pittsburgh, Pa.	2
Carnegie Institute, Pittsburgh, Pa.	1
Carnovale, Luigi, Chicago, Ill.	1
Carter, Dr. William, Brooklyn, N. Y.	1
Chemical Foundation Co., New York	2
Church of Jesus Christ of Latter-day Saints, Salt Lake City, Utah	1
Columbia Historical Society, Washington, D. C.	1
Commercial Publishing Co., New Bedford, Mass.	1
Congregational Library, Boston	1

Cowles, F. L., Cambridge	1
Davis, Elmer	1
Depew, Chauncey M., New York	1
DeVeyra, Jaime C.	1
Doran, Joseph I., Philadelphia, Pa.	3
Education, Department of, Division of Public Libraries	6
Ernst, Mrs. G. A., Cambridge	1
Federal Trade Commission, Washington, D. C.	1
Felt and Tarrant Mfg. Co., Chicago, Ill.	1
Ferguson, Mrs. W. S., Cambridge	1
Foreign Policy Association, Boston	1
Gerishaw, Grace, Cambridge	1
Girl Scouts, Inc., New York	1
Hackenbroch, J. P., Paterson, N. J.	1
Hatch, J. P., Boston	1
Hawkes, Cairn D., Cambridge	1
Hill, James	4
Hyde, Mary K.	1
Interstate Commerce Commission, Washington, D. C.	2
Judge Baker Foundation, Boston	1
Knights of Columbus Historical Commission, Boston	1
Lamb, F. C., Cambridge	3
Lawton, Mrs. E. M. C. A., Estate of, New York	2
Lichtenwaller, W. A., Los Angeles, Cal.	1
Lindley, Mrs. J. M., Cambridge	3
Macbeth-Evans Glass Co., Pittsburgh, Pa.	1
Marcy, Dr. Henry O., Cambridge	1
Marshall Jones Co., Boston	1
Massachusetts, Commonwealth of	6
Merritt, Albert N.	1
Ministerio de Relaciones Exteriores, Caracas, Venezuela.....	1
Municipal Reference Library, Chicago, Ill.	3
Murphy, Claudia Q., New York	1
Nash, Dr. George W., Hurley, N. Y.	1
National Electric Light Association, New York	1
National Federation of Business and Professional Women's Clubs	1
National Lamp Works of General Electric Company, Cleve- land, Ohio	1
New York State Library, Albany, N. Y.	2

Newbegin, E., Cambridge	26
Newfang, Oscar	1
Payne, Roger	1
Providence Public Library	1
Republican Club of Massachusetts, Boston	1
Rockefeller, John D., New York	1
Royce, Mrs. Josiah, Cambridge	1
Saunders, Mary, Cambridge	2
Saward, Frederick W., New York	1
Smithsonian Institution, Washington, D. C.	3
Southern Pine Association, New Orleans, La.	1
State Street Trust Co., Boston	1
Stillson, Robert L., Co., New York	1
Student Volunteer Movement, New York	13
Supreme Council, 33d degree A. A. S. R. of Freemasonry for the Southern Jurisdiction of the U. S., Washington, D. C.	1
Tuberculosis League, Pittsburgh, Pa.	1
United States Department of Agriculture	1
United States Department of Commerce	2
United States Department of Education	1
United States Department of Labor	1
United States Library of Congress	3
United States Patent Office	12
United States Treasury Department	1
United States War Department	3
United Fruit Co., Boston	1
United Publishers Corporation, New York	1
Viets, Edward, Cleveland, Ohio	1
Warren, Fiske, Harvard, Mass.	1
Whitman, Albert, Cambridge	1
Wilmington Society of Fine Arts, Wilmington, Del.	1
Wisconsin Library, Madison	1
Wolcott, Mrs. Mary C., Cambridge	2
Woodman, Mary, Cambridge	2
Worcester Public Library	1
Worden, Charles E., Milburn, N. J.	1
Yale University	1
Young Men's Christian Association, New York	1
Zulen, Pedro, Lima, Peru	4

REPORT ON LIBRARY TRUST FUNDS

FAY FUND

In 1873, Mr. Isaac Fay, citizen of Cambridge, bequeathed to the Library \$1,000.00, the income of which was to be expended in the purchase of books for the Library. This money, received in 1874, was then invested in a Demand Note of the city, dated November 30, 1879, at 6% interest. In 1888, by vote of the Finance Committee of the city this sum was taken from the City Treasury and paid to the Trustees of the Public Library, who then re-invested it in a \$1,000.00 Cambridge City Bond, numbered 83, dated August 1, 1888, bearing 4% interest. In February, 1919, it was invested in ten \$100 Liberty Bonds drawing $4\frac{1}{4}\%$ interest.

CUMMINGS FUND

In June, 1889, the Library received by will of Daniel P. Cummings, of East Cambridge, a gift of \$2,000.00, the annual income of which was to be expended in the purchase of non-sectarian books. This money was also invested by the Trustees in a Cambridge City Bond bearing interest at 4%, and later was invested in two \$1,000 Liberty Bonds bearing $4\frac{1}{4}\%$ interest.

CITIZENS' SUBSCRIPTION FUND

In 1889, the Board of Trustees started the movement for a Citizens' Subscription Fund, part to be applied to the immediate purchase of books and part to be invested as a permanent Fund. \$13,000.00 was subscribed, of which \$8,000.00 in cash was transferred to the Treasurer of the Board of Trustees of the Cambridge Public Library. \$5,000.00 of this sum was voted by the Board to be invested in a Cambridge City Sewer Loan Bond, dated May 1, 1890, running 20 years, bearing 4%. The balance, \$3,000.00, was expended in the purchase of books. At present the Treasurer's Book shows \$5,000.00 invested in Liberty Bonds at $4\frac{1}{4}\%$ and \$500.00 in a Cambridge City Sewer Loan Bond at 4%.

WILLIAM E. SAUNDERS FUND

In December, 1902, by a bequest from Miss Abigail L. Prentiss,

of North Cambridge, the Library received the sum of \$7,350.39, with which to establish the William E. Saunders Alcove in memory of her nephew. \$7,000.00 was invested in Liberty Loans bearing $4\frac{1}{4}\%$ and balance of principle is now on deposit at the Cambridgeport Savings Bank. The income from these investments must be devoted to the purchase of genealogies and New England local histories.

JAMES A. WOOLSON FUND

In 1905, the Library received a bequest of \$5,000.00 in accordance with the will of the late James A. Woolson. Under date of February 4, 1904, Article 34 of the will reads as follows: "I give and bequeath to the Trustees of the Cambridge Public Library 50 shares of my stock in the F. Brigham and Gregory Co., the same to constitute a Fund called the James A. Woolson Fund, and the income only thereof to be used for the purchase of books.

It is my wish that so long as my said daughter, Eda Adams Woolson shall live, such books shall be purchased under her direction, or at her suggestion. It is furthermore my wish that some appropriate plate or card be placed in each book published, similar to those to be seen in the Boston Athenaeum. This sum was invested in a Cambridge Park Loan Bond at $3\frac{1}{2}\%$, but is now invested in Liberty Bonds at $4\frac{1}{4}\%$.

The income in accordance with the terms of this will has been devoted, by request, to the purchase of music scores and works on music and have been submitted for approval to Miss Eda Adams Woolson, now Mrs. Byron S. Hurlbut.

EDWARD H. WHORF FUND

In March, 1910, the Library received a bequest of \$4,000.00 by special arrangement with the executor of the Edward H. Whorf Estate, in accordance with the following terms of his will:

"I give and bequeath to the Board of Trustees of the Cambridge Public Library the sum of \$1,000.00 and all my books, pamphlets, and maps, provided they shall be accepted by said Board of Trustees under the following conditions; namely that said sum of \$1,000.00 shall be invested or expended by said Board of Trustees for the benefit of said Library.

"I give and bequeath to the said Board of Trustees the further sum of \$3,000.00 to be invested by said Board for the benefit of said Library, provided said sum shall be accepted upon the fol-

lowing conditions, namely, that all my books, pamphlets and maps relating in any way to Mexico or Central America shall be so catalogued as to make a special reference catalogue of works in the English language on the subject of Mexico and Central America for the use of persons desiring to study that subject, and to ascertain the correct collation of works on that subject."

This \$3,000.00 is now invested in American Telegraph and Telephone Bonds at 4%.

WILLIAM PENN HARDING FUND.

In 1910 a bequest of \$1,000.00 in accordance with the will of the late William Penn Harding was received by the Trustees and on March 20, 1911, the money was turned over to the City Treasurer. This sum was deposited in the East Cambridge Savings Bank where it is now drawing 5% interest. By special arrangement with his heirs, the purchase of books from the income was confined to books relating exclusively to fine arts. At the recent request of Mr. Harding's daughter the scope of the books has been extended to include travel, biography and works of a more general character.

ABIGAIL W. HOWE FUND

On January 3, 1917, a legacy of \$3,000.00 was left to the Cambridge Public Library without restrictions under the will of the late Abigail W. Howe. This sum was deposited in the Harvard Trust Company, and on June 1, 1917, was invested in 3 \$1,000.00 Liberty Bonds at 4¼%.

MEHITABLE C. C. WILSON FUND

Under the will of Mehitable C. C. Wilson, the Library received in October 1913, \$432.00 which was deposited in the Harvard Trust Co. In May, 1914, the Library received the balance of the bequest, \$117.75. The total bequest was deposited in the Savings Department of the Harvard Trust Co.

TREASURER'S REPORT FOR YEAR ENDING MARCH 26, 1922**Citizens' Subscription Fund**

March 31, 1921		March 26, 1922	
Balance in bonds	\$5,500.00	Expenditures	\$312.61
Balance in bank	3.78	Balance in bonds	5,500.00
Receipts from income.....	229.14		
Int. on checking acct.....	45.65		
	<u>\$5,778.57</u>		<u>\$5,812.61</u>
		Deficit	34.04
		....	<u>\$5,778.57</u>

Cummings Fund

March 31, 1921		March 26, 1922	
Balance in bonds	\$2,000.00	Expenditures	\$83.91
Receipts from income	83.65	Balance in bonds	2,000.00
	<u>\$2,083.65</u>		
Deficit	3.32		<u>\$2,083.91</u>
	<u>\$2,080.33</u>	Deficit	3.58
			<u>\$2,080.33</u>

Fay Fund

March 31, 1921		March 26, 1922	
Balance in bonds	\$1,000.00	Expenditures	\$50.61
Balance in bank	36.83	Balance in bonds	\$1,000.00
Receipts from income	42.50	Balance in bank	28.72
	<u>\$1,079.33</u>		<u>\$1,079.33</u>

William Penn Harding Fund

March 31, 1921		March 26, 1922	
Balance in saving deposit	1,000.00	Expenditures	\$92.61
Balance in bank	43.75	Balance in saving deposit	1,000.00
	<u>\$1,043.75</u>		<u>\$1,092.61</u>
		Deficit	48.86
			<u>\$1,043.75</u>

William E. Saunders Fund

March 31, 1921		March 26, 1922	
Balance in bonds	\$7,000.00	Expenditures	\$363.52
Balance in savings deposit	692.65	Balance in bonds	7,000.00
Balance in bank	38.68	Balance in savings deposit	717.88
Int. on savings deposit.....	25.23		
Receipts from income	292.82		<u>\$8,081.40</u>
	<u>\$8,049.38</u>	Deficit	32.02
			<u>\$8,049.38</u>

James A. Woolson Fund

March 31, 1921		March 26, 1922	
Balance in bonds	\$5,000.00	Expenditures	\$86.67
Balance in bank	430.90	Balance in bonds	5,000.00
Receipts from income	209.14	Balance in bank	553.37
	<u>\$5,640.04</u>		<u>\$5,640.04</u>

Edward H. Whorf Fund

March 31, 1921		March 26, 1922	
Balance in bonds	\$3,000.00	Expenditures	\$249.85
Balance in bank	734.08	Balance in bonds	3,000.00
Receipts from income	120.00	Balance in bank	604.23
....	<u>\$3,854.08</u>	....	<u>\$3,854.08</u>

Mehitable C. C. Wilson Fund

March 31, 1921		March 26, 1922	
Balance in savings deposit	732.85	Balance in bank	\$751.15
Interest on saving deposit	18.30		<u>\$751.15</u>
	<u>\$751.15</u>		

Abigail W. Howe Fund

March 31, 1921		March 26, 1922	
Balance in bonds	\$3,000.00	Expenditures	\$115.01
Balance in bank	69.01	Balance in bonds	3,000.00
Receipts from income.....	127.50	Balance in bank	81.50
	<u>\$3,196.51</u>		<u>\$3,196.51</u>

FINES ACCOUNT

1921		Oct.	To cash from fines	\$389.03
April	To cash from fines	Nov.	" " " "	136.89
May	" " " "	Dec.	" " " "	159.49
June	" " " "	1922	" " " "	
July	" " " "	Jan.	" " " "	195.31
August	" " " "	Feb.	" " " "	200.26
		March	" " " "	170.00
				<u>\$1,250.98</u>
By cash paid City Treas-		By cash paid City Treas-		
urer	\$1,070.58	urer	\$1,250.98	

ANNUAL REPORT OF THE ELECTRICAL DEPARTMENT

Office of the City Electrician.

To the Honorable, the City Council of the City of Cambridge:

Gentlemen:—I submit herewith the twenty-third annual report of the Electrical Department for the fiscal year beginning April 1, 1921, and ending March 31, 1922.

INSPECTION OF ELECTRICAL WIRING

The accompanying table shows the increase in the amount of work in this department.

TABULATION OF INSPECTION OF INTERIOR WIRING

	April 1, 1920, to March 31, 1921	April 1, 1921, to March 31, 1922
Number of inspections	3,039	4,107
Number of installations inspected	1,703	2,121
Capacity of lamp sockets installed.....	30,369	43,609
Stoves and other heating devices	34	241
Number of power motors installed	575	612
Horse power of power motors installed	3,494	5,494
Number of 110-220 volt motors installed	54	140
Horse power of 110-220 volt motors installed	9	166
Number of generators installed	5	1
K. W. capacity of generators installed	195	35
Number of welders installed	•2	
K. W. capacity of welders installed	23	
Number of rectifiers installed	11	3
Number of transformers installed	26	25
K. W. capacity of transformers installed	1,176	874
Number of defects noted	611	1,047
Number of unfinished inspections	108	104

FIRE ALARM AND POLICE SIGNAL SYSTEMS

The number of alarms sounded by the Fire Alarm signal system is as follows:

Total number of alarms for fire sounded during the year.....	829
Number of bell alarms for fire sounded during the year	394

Number of telephone alarms reported during the year.....	435
Number of second alarms included in the above	3
Number of third alarm included in the above	6
Number of fourth alarms included in the above	2
Number of general alarms included in the above	2
Number of Somerville alarms included in the above	29
Number of A. D. T. alarms included in the above	22
Number of automatic alarms	18

In a storm during November, 1921, lightning entered the Fire Alarm Office through our cables and on account of sleet which accumulated on the wires and broke them down, the City wires and the electric light wires became crossed up, causing the high tension current to enter the Fire Alarm Office. These two elements burned out the private telephone switchboard in the Fire Alarm Office and made it necessary to install a new one.

The police signal system was maintained without any material additions or alterations. The cost of maintaining the police signal systems has increased materially on account of maintaining the four stations and the differences in the boxes and other apparatus. Much difficulty is also encountered on account of the inability to obtain parts to replace breakage and wear in the systems. I recommend that steps be taken to install a new system, and that all the wires and cables be brought into one station, and that all the receiving apparatus be in this one station.

The number of approvals for digging permits granted during the year is as follows:

Cambridge Electric Light Co.	164
New England Tel. and Tel. Co.	80

The number of permits for running wires during the year is as follows:

Cambridge Electric Light Co.	1,407
New England Tel. and Tel. Co.	58

STREET LIGHTING

	March 31 1921	March 31 1922
Ornamental luminous arc lamps	259	302
Tungsten arm lamps—250 c. p.	563	614
Tungsten arc lamps—300 c. p.	98	78
Incandescent lamps—60 c. p.	759	787
Welsbach gas lamps	305	303

An order has been given to install Luminous Arc lamps on

Main Street from Lafayette Square to the Cambridge Bridge and it is expected that the work will be finished during the coming fall.

Numerous orders are passed every year to substitute electric incandescent lamps for gas lamps, but on account of the contract with the Cambridge Gas Light Co. which calls for a minimum of three hundred (300) lamps, these changes cannot be made without breaking the contract. I renew my recommendation to discontinue gas street lighting altogether and to substitute electric lighting therefor.

I thank His Honor the Mayor and the City Council for their co-operation in the work of the Electrical Department during the year.

Respectfully submitted,

TIMOTHY C. O'HEARN,

City Electrician.

REPORT OF BOARD OF CEMETERY COMMISSIONERS

To His Honor the Mayor and City Council:—

The following is a report of the Cemetery Department for 1921-1922.

	Number	Receipts
Burials	850	\$6,631 00
Removals	36	268 00
Brick and Slate Vaults	24	842 00
Foundations	181	2,367 55
Grading and Sodding	136	1,195 00
Care of Lots	773	3,771 00
Lots and Graves Sold	412	19,739 40
Tomb Fees	22	214 00
Evergreen	66	264 00
Chapel	16	48 00
Sundries		22 70
Interest on Perpetual Care Fund.....		5,899 87
Total Receipts		\$41,262 52

	Number	Receipts
Lots Perpetuated 1921-1922	60	\$6,185 00

REPORT OF THE TRUSTEES OF THE
DOWSE INSTITUTE FOR THE YEAR
OF 1921-1922

To the Honorable, the City Council:

Gentlemen:—During the season of 1921 the Dowse Institute maintained teaching courses in the following centers: Young Men's Christian Association, Margaret Fuller House, East End Christian Union, and Children's Museum. The Institute also procured a travelling lantern for the Children's Museum to assist in giving illustrated lectures in the public schools.

Respectfully,

JOSEPH H. BEALE,
Secretary.

CAMBRIDGE WATER BOARD

1921-1922

President

JAMES J. SCULLY

Members of the Board

JAMES J. SCULLY	Term expires 1926
JOHN P. CONROY	Term expires 1922
JOHN F. O'BRIEN	Term expires 1918
JOSEPH E. DOHERTY	Term expires 1924
BERNARD E. McDERMOTT	Term expires 1925

WALTER H. HARDING, Clerk.

General Superintendent of Works

TIMOTHY W. GOOD

Water Registrar

WALTER H. HARDING

CAMBRIDGE WATER BOARD

Date of election and length of service of members, 1865-1920.

CHESTER W. KINGSLEY	1865—1894	
JOHN SARGENT	1865—1871	
A. K. P. WELCH	1865—1871	
ROBERT DOUGLASS	1865—1871	
SAMUEL SLOCOMB	1865—1876	
Z. L. RAYMOND	1871	
HENRY L. EUSTIS	1871—1885	
J. WARREN MERRILL	1871—1881	
GEORGE P. CARTER	1871—1883	
JOHN H. LEIGHTON	1876—1879	
KNOWLTON S. CHAFFEE	1879—1889	
JAMES M. W. HALL	1881—1899	
LEANDER M. HANNUM	1883—1884	{
	1885—1893	
JOHN F. O'BRIEN	1884—1895	
GEORGE H. HOWARD	1889—1910	
E. BURT PHILLIPS	1893—1896	
FRANK A. ALLEN	1895—1899	
STILLMAN F. KELLEY	1894—1903	
WELLINGTON FILLMORE	1896—1903	
EDMUND H. STEVENS	1899—1907	
WILLIAM B. DURANT	1899—1907	
ANDREW J. RADY	1903—1914	
JOHN F. O'BRIEN	1903	(Now in office)
ALVIN F. SORTWELL	1907—1910	
JAMES J. SCULLY	1910	(Now in office)
AUGUSTUS W. DUDLEY	1907—1909	
JOSEPH E. DOHERTY	1909	(Now in office)
BERNARD E. McDERMOTT	1910	(Now in office)
JOHN P. CONROY	1914	(Now in office)

Presidents of the Board

J. WARREN MERRILL	1865—1867
EZRA PARMENTER	1867
JOHN SARGENT	1867—1871
J. WARREN MERRILL	1871—1873
CHESTER W. KINGSLEY	1883—1894
GEORGE P. CARTER	1876—1883
CHESTER W. KINGSLEY	1883—1894
JAMES M. W. HALL	1894—1899
WILLIAM B. DURANT	1899—1907
ALVIN F. SORTWELL	1907—1910
ANDREW J. RADY	1910—1914
JAMES J. SCULLY	1914

REPORT OF CAMBRIDGE WATER BOARD

April 1, 1922.

To the Honorable, the City Council of the City of Cambridge,
Gentlemen:—

The fifty-seventh annual report of the Cambridge Water Board for the year ending March 31, 1922, is herewith submitted for your consideration.

The reports of the General Superintendent of Water Works, Water Registrar and Commissioners of the Sinking Fund of the City give in detail the operations and financial condition of the water works.

FINANCIAL STATEMENT IN BRIEF

Total cost of water (works including the cost of the filtration plant, \$454,837.52), to March 31, 1922....\$7,283,543.52

WATER WORKS BOND ACCOUNT

Whole amount of bonds outstanding April 1, 1922, including \$319,000.00 issued for construction of filtration plant	\$1,274,500 00
Less value of water debt sinking fund	648,828 55
Net water debt on March 31, 1922	\$625,671 45

During the past year the following water bonds matured and were paid, viz:

May 1, 1921.....	3½%	\$12,500 00	(serial)
July 1, 1921.....	3½%	3,500 00	(serial)
July 1, 1921.....	3½%	13,500 00	
Sept. 1, 1921.....	3½%	1,000 00	(serial)
Nov. 1, 1921.....	3½%	5,000 00	
Nov. 1, 1921.....	3½%	500 00	(serial)
Dec. 1, 1921.....	3½%	1,000 00	(serial)
Feb. 1, 1922.....	3½%	1,500 00	(serial)
Mar. 1, 1922.....	3½%	500 00	(serial)

Total\$39,000 00

CONSUMPTION OF WATER

The total consumption of water for the year	
ending April 1, 1922, was	4,042,409,300 gallons
The total consumption of water for the year	
ending April 1, 1921, was.....	4,043,917,000 gallons
<hr/>	
Decrease over last year	1,507,700 gallons
Daily average consumption, in 1921-22, based	
on 362 days	11,075,094 gallons
Daily average consumption in 1920-21	11,079,224 gallons
<hr/>	
Decrease over last year	4,130 gallons

STONY BROOK AND HOBBS BROOK RESERVOIRS

Stony Brook and Hobbs Brook Reservoirs are full and overflowing, as has been the case for years. Between April 1, 1921, and April 1, 1922, there has 3,351,100,000 gallons gone to waste over Stony Brook overflow.

It was stated in our last year's report that the Board had under consideration placing flash boards in the waste ways of these reservoirs, to save a portion of the water going to waste each year into Charles River. It was finally decided to increase the height in each reservoir two feet, and the necessary work incidental to placing the flash boards was completed and the boards in place in January, 1922.

On March 8 the water in Stony Brook Reservoir had reached the increased height of the flash boards and was flowing to waste over the top of the boards.

On March 13 the water in Hobbs Brook Reservoir had reached the overflowing point.

The saving in water storage is

Stony Brook reservoir	48,000,000 gallons
Hobbs Brook reservoir	489,000,000 gallons
<hr/>	
537,000,000 gallons	

or equivalent to nearly fifty days consumption for the entire city.

The saving in water storage in Stony Brook Reservoir given above as 48,000,000 gallons is by no means the entire saving that we anticipate. It has been our experience that Stony Brook is apt to fluctuate in depth due to more or less rain fall, and it has further been our experience that when Stony Brook Reservoir be-

comes low, that after sudden rain it would fill up very quickly, and it is therefore extremely probable that we shall have the reservoir low at one time and high at another, so that during the year we will probably get several times 48,000,000 gallons, or approximately somewhere about 150,000,000 gallons as a total.

The Board has for years been endeavoring to find some location for a storage basin to save a portion of this waste water, and studies of the available locations determined that there was but one location feasible, and that would store but 400,000,000 gallons at a probable cost of \$284,000.

When it is considered that for a cost of \$6,608,88 we have been able to save 537 million gallons, with the strong probability of being able to save 100,000,000 in addition, the financial advantage is apparent.

The plans for the construction in connection with the placing the flash boards in the waste ways were made by City Engineer Hastings, and the work was done under the direction of the General Superintendent, Mr. Good, by the employes of the Board.

FILTRATION

In June, 1921, contracts were made with Coleman Bros., Inc., for the filtration buildings and pipe line, and with Roberts Filter Manufacturing Co. for machinery.

The work progressed very favorably during the year until the building contractor was obliged to practically discontinue work for the Winter.

At the date of this Report it looks probable that the plant will be in operation in about six months.

FUTURE DEVELOPMENTS

Some years ago expert engineers, who were engaged to look into the problem of the future supply of water for the City of Cambridge, among other recommendations suggested that the Board consider building an embankment on the shores of Fresh Pond to increase its storage capacity. The Board took up the matter of the disposal of this surplus material with the contractors. When excavation was commenced at the site of the filtration plant it was obvious that there was a large amount of surplus material to be disposed of; and that the material to be excavated was largely clay, and best suited for the purpose of build-

ing the embankment around the pond. It was decided to take advantage of the very small cost of placing the material along the easterly and southerly roadways on the borders of the pond.

This Board has always felt that the Fresh Pond reservation is primarily a part of the water system, rather than a park system, and that as necessity appeared the shores should be raised to increase the storage capacity of the pond. If an embankment eight feet in height above the level of the present roadways is constructed, we will obtain increased storage capacity in the pond, of 641,000,000 gallons.

It is not the intention of the Board to recommend the building of an embankment at present, for two reasons:

First:—We have sufficient water to supply the City for years to come, with our supply as at present developed.

Second:—We think it wise to wait for a few years until we are relieved from our present financial burdens, and the work can be paid for from surplus receipts. \$300,000.00 of our present indebtedness will mature and be paid from the water works sinking fund in 1924.

PREPARATION FOR FILTRATION

Last year, to April 1, 1922, we cleaned seven miles of main pipe. This work on our large mains is substantially completed, and the mains generally are in good condition to receive filtered water.

METERS

Two hundred five (205) meters were added during the year, making a total of 7,097 now in use, or 47% of the live supplies now being metered. Of the 7,097 meters now in place, we receive revenue from 6,964, the remaining meters being the detector type set on fire supplies, and the others on public buildings, from which two latter we receive no revenue.

IN GENERAL

The surplus receipts in 1917-1918 amounted to.....	\$33,543 71
The surplus receipts in 1918-1919 amounted to.....	105,994 89
The surplus receipts in 1919-1920 amounted to.....	71,060 28
The surplus receipts in 1920-1921 amounted to.....	80,242 80
The surplus receipts in 1921-1922 amounted to.....	25,182 90

Total	\$316,024 58
-------------	--------------

We wish to express our appreciation of the assistance that Mr. L. M. Hastings, the City Engineer, has given the Board in various matters coming up for consideration in connection with our construction matters. He, as before stated, drew the plans for the alteration necessary for placing the flash boards at Stony Brook and Hobbs Brook Reservoirs, and also suggested and laid out the plans for the placing of material taken in connection with the excavation for the filtration plant.

The work of the department, as laid out and directed by the General Superintendent, has been done in a most satisfactory manner to the Board, and we cannot too highly praise his every effort in this direction.

Respectfully submitted,

JAMES J. SCULLY,
BERNARD E. McDERMOTT,
JOSEPH E. DOHERTY,
JOHN F. O'BRIEN,
JOHN P. CONROY,
Cambridge Water Board.

REPORT OF THE WATER REGISTRAR

Water Registrar's Office,
April 1, 1922.

Hon. Timothy W. Good, General Superintendent of Cambridge
Water Works:

Dear Sir:—In compliance with the requirements of the city ordinance, I present the fifty-seventh annual report of the operations of this department, showing the receipts, expenditures, abatements, etc., for the year ending March 31, 1922:

Amount of bills unpaid March 31, 1921:

Water rates	\$24,992 70	
Supplies and repairs	2,890 41	
Off and on	108 00	
Seals	17 50	
Maintenance and Building Account	2,928 07	
		<hr/>
		\$30,936 68

Amount of bills placed in the hands of the City Treasurer for collection from April 1, 1921, to March 31, 1922:

Water rates	\$429,805 96	
Supplies and repairs	12,319 33	
Off and on, rents and seals	767 15	
Maintenance and Building Account	2,919 45	
		<hr/>
		\$445,811 89
		<hr/>
		\$476,748 57

There has been collected:

Water rates and miscellaneous	\$441,109 10
-------------------------------------	--------------

There has been abated:

Water rates, off and on, seals, supplies and repairs, and construction account	1,489 29
---	----------

There remains uncollected:

Water rates	\$27,218 51	
Supplies and repairs	4,451 69	
Off and on	104 00	
Seals	19 00	
Maintenance and Building Account	2,347 45	
Construction Account	9 53	
		<hr/>
		\$476,748 57

EXPENDITURES

Maintenance Account, from April 1, 1921, to March 31, 1922	\$415,926 20	
Serial bonds paid	20,500 00	
		<hr/>
		\$436,426 20

ABATEMENTS

Water rates, supply and repair and construction bills from April 1, 1921, to March 31, 1922, to the amount of	1,489 29
---	----------

REFUNDS

Water rates from April 1, 1921, to March 31, 1922, to the amount of	\$772 40
Which amount deducted from receipts.....	441,109 10
Makes net receipts of rates, fines, etc.	\$440,336 70

Statements of yearly revenue received from water rates since the purchase of the works by the City:

From April 28, 1865, to December 1, 1865	\$32,367 19
From December 1, 1865, to December 1, 1866	40,073 27
From December 1, 1866, to December 1, 1867	53,733 62
From December 1, 1867, to December 1, 1868	63,747 42
From December 1, 1868, to December 1, 1869	76,149 30
From December 1, 1869, to December 1, 1870	92,605 95
From December 1, 1869, to December 1, 1870	92,605 95
From December 1, 1870, to December 1, 1871	111,782 65
From December 1, 1871, to December 1, 1872	127,201 30
From December 1, 1872, to December 1, 1873	146,117 32
From December 1, 1873, to December 1, 1874	153,634 27
From December 1, 1874, to December 1, 1875	138,880 37
From December 1, 1875, to December 1, 1876	179,166 76
From December 1, 1876, to December 1, 1877	154,843 59
From December 1, 1877, to December 1, 1878	157,443 91
From December 1, 1878, to December 1, 1879	164,681 90
From December 1, 1879, to December 1, 1880	173,325 49
From December 1, 1880, to December 1, 1881	170,062 73
From December 1, 1881, to December 1, 1882	177,430 80
From December 1, 1882, to December 1, 1883	179,361 89
From December 1, 1883, to December 1, 1884	161,526 27
From December 1, 1884, to December 1, 1885	185,544 36
From December 1, 1885, to December 1, 1886	199,404 43
From December 1, 1886, to December 1, 1887	204,748 64
From December 1, 1887, to December 1, 1888	211,156 27
From December 1, 1888, to December 1, 1889	221,124 70
From December 1, 1889, to December 1, 1890	231,116 32
From December 1, 1890, to December 1, 1891	227,054 53
From December 1, 1891, to December 1, 1892	237,527 08
From December 1, 1892, to December 1, 1893	242,219 78
From December 1, 1893, to December 1, 1894	250,032 71
From December 1, 1894, to December 1, 1895	268,813 62
From December 1, 1895, to December 1, 1896	281,030 00
From December 1, 1896, to December 1, 1897	291,457 62
From December 1, 1897, to December 1, 1898	267,129 78
From December 1, 1898, to December 1, 1899	302,569 00
From December 1, 1899, to December 1, 1900	319,479 37
From December 1, 1900, to December 1, 1901	320,468 01
From December 1, 1901, to December 1, 1902	323,000 53
From December 1, 1902, to December 1, 1903	333,777 34
From December 1, 1903, to December 1, 1904	339,109 27
From December 1, 1904, to December 1, 1905	343,916 00
From December 1, 1905, to December 1, 1906	355,768 47

From December 1, 1906, to December 1, 1907	373,151 35
From December 1, 1907, to March 31, 1909 (16 months)	410,533 41
From April 1, 1909, to March 31, 1910	351,264 86
From April 1, 1910, to March 31, 1911	375,722 42
*From April 1, 1911, to March 31, 1912	353,891 02
From April 1, 1912, to March 31, 1913	385,475 71
From April 1, 1913, to March 31, 1914	383,342 41
From April 1, 1914, to March 31, 1915	396,827 26
From April 1, 1915, to March 31, 1916	394,908 36
From April 1, 1916, to March 31, 1917	401,607 91
From April 1, 1917, to March 31, 1918	358,335 70
From April 1, 1918, to March 31, 1919	423,906 19
From April 1, 1919, to March 31, 1920	403,250 84
From April 1, 1920, to March 31, 1921	453,775 94
From April 1, 1921, to March 31, 1922	441,109 10

*Reduction in water rate schedule.

COMPARATIVE STATEMENT
MAINTENANCE ACCOUNT

	Received	
	1920-1921	1921-1922
From rates, fines, etc.	\$474,920 19	\$441,109 10
	Expended	
General, pumping, reservoirs, interest on water debt, serial bonds paid	\$394,637 59	\$415,926 20
Balance due water works	80,282 60	26,182 90
	<u>\$474,920 19</u>	<u>\$441,109 10</u>

The above surplus receipts for the year 1921-22 (\$25,182.90) are retained in the city treasury to the credit of the Water Department, as required by law.

The monthly house-to-house inspection for leaks and waste has shown satisfactory results. This inspection has resulted in a very considerable saving in waste of water.

Respectfully submitted,

WALTER H. HARDING,
Registrar.

REPORT OF THE GENERAL SUPERINTENDENT OF THE CAMBRIDGE WATER WORKS

April 1, 1922.

To the Honorable Water Board of the City of Cambridge.

Gentlemen:—The annual report of the General Superintendent's department, for the year ending March 31, 1922, is hereby respectfully submitted.

PUMPAGE

The annual pumpage for the year, as reported by our Chief Engineer at the pumping station, was

For 362 days—4,042,409,300 gallons.

Or 1,507,700 gallons less than last year.

It was necessary to inspect the condition of Payson Park Reservoirs for three days, during which time the engine was shut down, otherwise the total pumping for the entire year was done by our Leavitt engine.

For the year the average elevation of water in Fresh Pond has been 15.85, or one foot below high water mark (16.85).

The water in Stony Brook Reservoir reached its lowest elevation, 64.49, on November 20, 1921, at which time we were working on the dam. On March 22, 1922, it reached its highest elevation during the year, 83.78, or .78 over the elevation of the new crest.

The water in Hobbs Brook Reservoir No. 1 reached lowest mark, 178.25, on October 17, 1921, and in Reservoir No. 2, 178.15, on November 13, 1921. On March 31, 1922, the elevation of both reservoirs was 183.59, or .34 above the elevation of new crest.

COMPARISON OF PUMPAGE

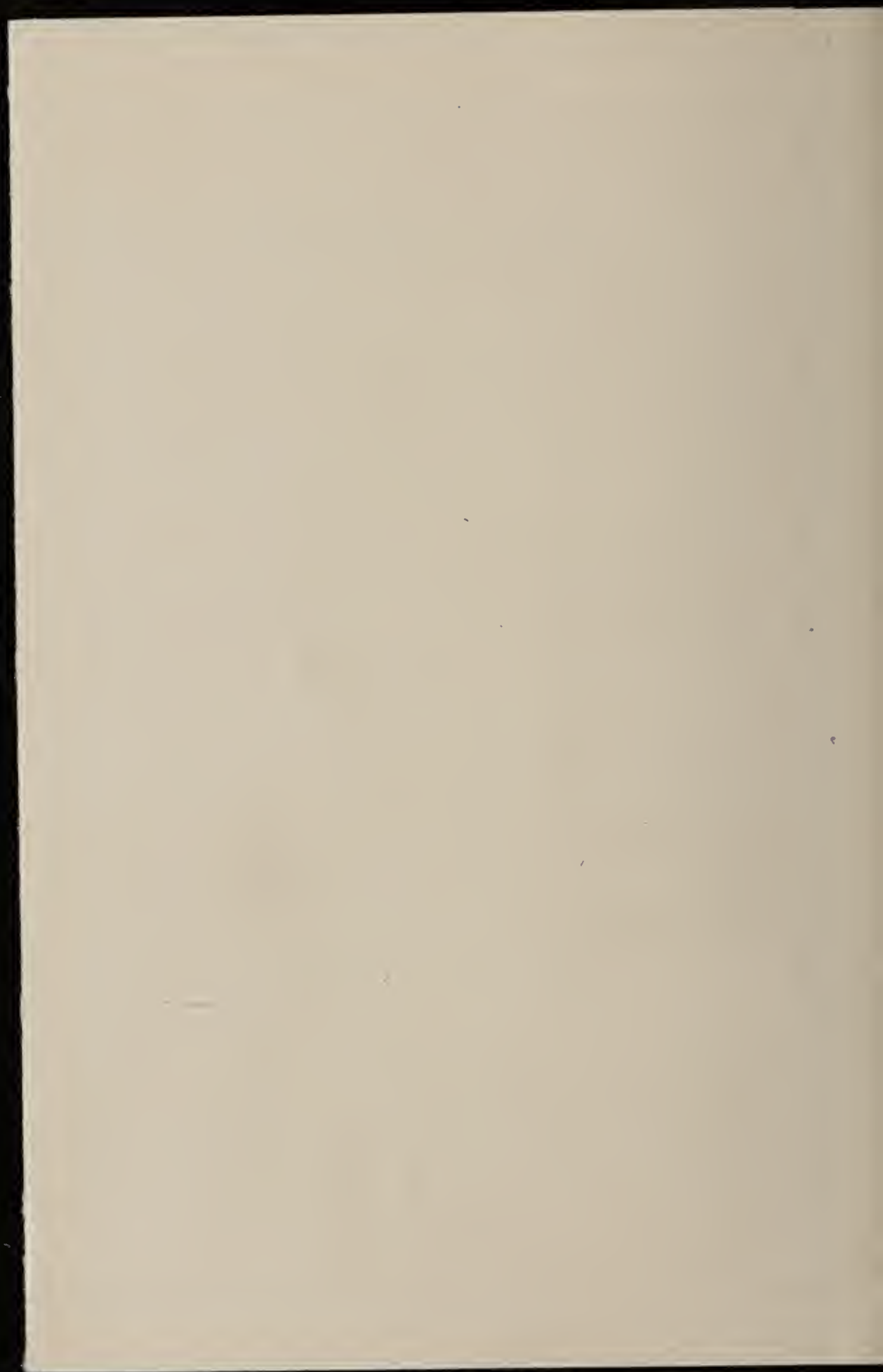
	Pumpage for year ending March 31, 1921	Pumpage for year ending March 31, 1922	Increase	Decrease
	Gallons 1920	Gallons 1921	Gallons	Gallons
April	319,243,200	306,367,600	.....	12,875,600
May	345,631,400	329,143,300	.....	16,488,100
June	340,172,200	342,962,600	2,790,400	.....
July	384,125,200	338,502,600	.....	45,622,600
August	355,210,600	334,681,800	.....	20,528,800
September	343,582,800	321,995,800	.....	21,587,000
October	344,217,800	346,764,000	2,546,200	.....
November	309,660,400	321,749,000	12,088,600	.....
December	328,442,800	348,216,000	19,773,200	.....
	1921	1922		
January	349,716,400	380,944,800	31,228,400	.....
February	304,465,200	330,096,800	25,631,600	.....
March	319,449,000	340,985,000	21,536,000	.....
Total	4,043,917,000	4,042,409,300	.....	1,507,700

Comparative Total Pumpage During the Past Fourteen Years.
Fiscal Year ends March 31

Year	Annual Pumpage	Increase or Decrease	Average Daily Pumpage	Increase or Decrease	Average Daily Pumpage per capita	Esti- mated Popu- lation
	Gallons	Gallons	Gallons	Gallons	Gallons	
1909	3,692,451,980	149,718,360 decrease	10,116,307	381,426 decrease	101.00	100,000
1910	3,678,588,720	13,863,260 "	10,078,325	37,982 "	97.84	103,000
1911	3,794,689,680	116,100,960 increase	10,396,410	318,085 increase	99.16	104,839
1912	3,868,026,800	73,337,120 "	10,568,380	171,970 "	100.00	104,839
1913	3,827,528,600	40,498,200 decrease	10,486,380	82,000 decrease	95.33	110,000
1914	3,985,123,900	157,595,300 increase	10,948,142	461,762 increase	95.75	112,000
1915	3,434,421,300	550,702,600 decrease	9,409,373	1,538,769 decrease	82.53	114,000
1916	3,409,230,800	25,190,500 "	9,314,838	94,535 "	81.70	114,000
1917	3,509,464,600	100,233,800 increase	9,614,971	300,133 increase	84.34	114,000
1918	3,757,413,400	247,948,800 "	10,294,282	679,311 "	90.30	114,000
1919	3,900,317,100	142,903,700 "	10,685,800	391,518 "	93.73	114,000
1920	3,990,502,200	90,185,100 "	10,903,011	217,211 "	94.89	114,900
1921	4,043,917,000	53,414,800 "	11,079,224	176,213 "	96.42	114,900
1922	4,042,409,300	1,507,700 decrease	11,075,094	4,130 decrease	96.38	114,900

TABLE SHOWING RAINFALL AT STONY BROOK BASIN AT WESTON, AT HOBBS BROOK BASIN IN WALTHAM, AT CITY HALL, CAMBRIDGE, AND AT BAKER'S BRIDGE, LINCOLN, FOR 1921.

[illegible]



Total Rainfall for the Past Fourteen Years.

	Fresh Pond Reservoir	Stony Brook Reservoir	Hobbs Brook Reservoir
	Inches	Inches	Inches
1909.....	30.67	34.87	34.77
1910.....	34.97	37.83	35.08
1911.....	28.86	31.78	28.26
1912.....	35.60	42.63	39.90
1913.....	30.58	41.22	40.26
1914.....	39.24	42.13	40.71
1915.....	31.11	34.44	33.02
1916.....	39.70	41.90	45.32
1917.....	37.45	37.11	35.88
1918.....	38.14	38.69	34.84
1919.....	36.81	41.24	39.87
1920.....	45.20	51.33	21.37*
1921.....	40.52	44.21	44.44
1922.....	43.63	44.11	47.62

*For six months only.

Total Rainfall for Year 1921-1922.

	Fresh Pond Reservoir	Stony Brook Reservoir	Hobbs Brook Reservoir
	Inches	Inches	Inches
1921			
April.....	6.06	3.33	6.04
May.....	1.87	5.06	2.54
June.....	4.23	2.63	3.83
July.....	11.73	8.76	10.92
August.....	1.39	1.45	1.48
September.....	1.40	1.90	2.25
October.....	.89	1.45	1.05
November.....	5.72	7.76	6.88
December.....	1.38	2.52	2.31
1922			
January.....	1.44	1.57	2.04
February.....	2.71	3.20	3.83
March.....	4.81	4.48	4.45
Total.....	43.63	44.11	47.62

FRESH POND PUMPING STATION

	RUNNING TIME			PUMPAGE		COAL CONSUMED		Rainfall	Average Height of Pond
	Engine No.	Total	Daily Average	Total	Daily Average	Total	Daily Average		
1921		Hours	Hours	Gallons	Gallons	Pounds	Pounds	Inches	Feet
	7	380.75	13.12	306,367,600	10,564,400	448,500	14,950	6.06	17.16
	7	409.25	13.20	329,143,300	10,617,525	483,000	15,580	1.87	17.26
	7	427.00	14.23	342,962,600	11,432,086	476,700	15,890	4.23	16.92
	7	420.75	13.57	338,502,600	10,919,438	491,000	15,838	11.73	16.53
	7	415.50	13.40	334,681,800	10,796,187	496,200	16,006	1.39	14.60
	7	398.75	14.24	321,995,800	11,499,850	472,000	15,733	1.40	14.57
	7	431.00	13.90	346,764,000	11,185,935	521,700	16,829	.89	14.73
	7	398.50	13.28	321,749,000	10,724,966	482,500	16,083	5.72	14.97
	7	432.25	13.94	348,216,000	11,232,774	519,800	16,767	1.38	15.60
	7	472.75	15.25	380,944,800	12,288,541	571,200	18,425	1.44	16.00
	7	410.75	14.67	330,096,800	11,789,171	486,000	17,357	2.71	15.72
7	424.25	13.68	340,985,000	10,999,516	500,700	16,151	4.81	16.60	
Total.....				4,042,409,300	.....	5,949,300	.....	43.63	.....
Daily Average.....					11,075,094	.....	16,299	.....	15.85

FRESH POND.

		Highest Elevation during month	Lowest Elevation during month	Average Height of Pond	Monthly Rainfall	Pumpage	Registration of Weir	
							Intake	No. of Days
1921					Inches	Gallons	Gallons	
April	13		16.81					
April	27	17.48		17.16	6.06	306,367,600	295,975,000	28
May	1	17.60						
May	8		16.90	17.26	1.87	329,143,300	249,475,000	23
June	1	17.04						
June	30		16.48	16.92	4.23	342,962,600	289,250,000	26
July	21	17.35						
July	31		15.75	16.53	11.73	338,502,600	185,200,000	17
August	1	15.65						
August	21		13.96	14.60	1.39	334,681,800	179,750,000	19
September	1		14.32					
September	16	14.79		14.57	1.40	321,995,800	308,250,000	30
October	10		14.56					
October	26	14.97		14.73	.89	346,764,000	331,000,000	31
November	9		14.87					
November	30	15.16		14.97	5.72	321,749,000	302,000,000	30
December	2		15.23					
December	31	16.04		15.60	1.38	348,216,000	315,250,000	31
1922								
January	12	16.15						
January	30		15.73	16.00	1.44	380,944,800	324,750,000	31
February	19		15.66					
February	28	15.81		15.72	2.71	330,096,800	314,000,000	28
March	1		15.81					
March	31	17.63		16.60	4.81	340,935,000	369,000,000	31
Total...					43.63	4,042,409,300	3,463,900,000	325
Daily average				15.85		11,075,094	9,490,137	

OPERATING EXPENSES AT THE PUMPING STATION

April 1, 1921, to March 31, 1922

A—Personal Service

1. Permanent employes	\$19,414 13	
2. Transient employes		
Coal passing	1,470 84	
Unloading coal	739 86	
Vacation supply man	462 00	
Boiler repairs	57 56	
Coal shed repairs	30 25	
		\$22,174 64

B—Service other than personal

3. Advertising and posting	\$11 76	
4. Transportation of persons	25 00	
5. Cartage and freight	46 14	
8. Light and power	119 79	
9. Lighting streets, alleys, etc.	150 96	
13. Communication	74 26	
27. Testing materials and supplies ..	39 20	
36. Boiler inspection	10 00	
39. Service not otherwise coded	1,751 49	
		\$2,228 60

C—Equipment

13. Tools and instruments	\$350 62	
17. Equipment not otherwise coded	403 58	
		\$754 20

D—Supplies

1. Office	\$10 36	
2. Food and ice	80 73	
3. Fuel and freight	27,731 09	
8. Laundry, cleaning and toilet	24 50	
16. Supplies not otherwise coded	2,823 29	
		\$30,669 97

E—Materials

6. Water	\$46 61	
		\$46 61
		\$55,874 02

Year Ending March 31	Pumpage, Gallons	Gallons Delivered in Fresh Pond through Conduit	Overflow at Stony Brook Reservoir
1913.....	3,827,528,600	3,124,787,500	2,571,200,000
1914.....	3,985,123,900	3,254,225,000	3,022,800,000
1915.....	3,434,421,300	2,742,500,000	3,477,200,000
1916.....	3,409,230,800	3,461,000,000	2,581,900,000
1917.....	3,509,464,600	3,468,950,000	4,091,800,000
1918.....	3,757,413,400	3,694,250,000	2,386,100,000
1919.....	3,900,317,100	3,999,750,000	2,186,400,000
1920.....	3,990,502,200	3,753,914,000	5,502,900,000
1921.....	4,043,917,000	3,344,725,000	5,727,600,000
1922.....	4,042,409,300	3,463,970,000	3,351,100,000

	Pumpage Gallons	Gallons per Capita	Stony Brook Overflow
1885.....	1,125,252,287	49	.....
1890.....	1,638,550,512	62	8,700,000,000
1895.....	2,190,781,892	71	5,281,900,000
1900.....	2,651,277,240	78	4,447,100,000
1905.....	3,394,159,640	92	3,148,900,000
1910.....	3,678,588,720	97	2,531,500,000
1915.....	3,434,421,300	82	3,477,200,000
1920.....	3,990,502,200	94	5,502,900,000
1921.....	4,043,917,000	96	5,727,600,000
1922.....	4,042,409,300	96	3,351,100,000

The elevation of the crest at Stony Brook Dam was raised January, 1922, from 81. to 83. by the addition of flash boards

SUMMARY OF STATISTICS

In form recommended by the New England Water Works Association.

CAMBRIDGE WATER WORKS

Cambridge, Middlesex County, Massachusetts.

GENERAL STATISTICS

Population by census 1920, 109,546.

Estimated population March 31, 1922, 114,900.

"Cambridge Water Works Corporation" was chartered in 1852 and organized in 1853.

The works were constructed in 1855, Mr. John Blake, consulting engineer, and came into possession of the city by purchase in 1865, when they were called "Cambridge Water Works."

The original source of supply was Fresh Pond in Cambridge and Belmont, which was enlarged by connection via conduit with Wellington Brook and Spy Pond, Arlington. The waters of these additional sources were adjudged unfit for domestic use in 1880 and since that time have not been utilized for a supply in Cambridge.

In 1887, Fresh Pond was augmented by a storage reservoir which had been constructed on Stony Brook, located in Weston and Waltham.

The waters from this brook are brought to Fresh Pond by a conduit, originally a thirty-inch cast iron pipe, which was laid through Waltham and Watertown to Fresh Pond Reservoir.

This extension of the works was made under the direction of Mr. Henry N. Crafts, as consulting engineer, and our City Engineer, Mr. W. S. Barbour.

The population of the city was about 60,000 in 1887.

In 1897, an additional provision was made for storing water by the construction of two large reservoirs artificially formed by constructing two dams across Hobbs Brook, which is a tributary of Stony Brook, and flows through Lexington and Lincoln.

Payson Park Distributing Reservoir also was completed in 1897.

Consulting engineers, Mr. A. Fteley and Messrs. Rice and Evans, and our City Engineer, Mr. L. M. Hastings, directed the construction of these reservoirs.

The population was about 87,500 in 1897.

In 1905 and 1906, two section of the Stony Brook pipe line were rebuilt; the new conduit was made of concrete, sixty-three inches in diameter. Another part was rebuilt in 1908, when a new thirty-inch main of cast iron was laid to replace 1,500 feet of old thirty-inch line which has been abandoned.

The consulting engineer for the concrete conduit was Mr. Freeman C. Coffin, assisted by our City Engineer, Mr. L. M. Hastings.

The new thirty-inch main was laid under the supervision of the Water Work Superintendent, Mr. E. C. Brooks.

The conduit is constructed as follows:

From Fresh Pond to River Street, Waltham, 27,405 feet of 63-inch concrete.

From River Street to Stony Brook Dam, 1,500 feet of 30-inch (new); 6,023 feet of 30-inch (old); 4,826 feet of 36-inch (old).

Mode of supply: gravity from Hobbs Brook and Stony Brook storage reservoirs to Fresh Pond receiving reservoir; pumping from Fresh Pond receiving reservoir to Payson Park distributing reservoir, through the 40-inch steel pumping main; thence, by gravity, to consumers through the 40-inch steel distributing main. The Leavitt engine, of 20,000,000 gallons capacity, is connected with this steel main.

In case of necessity the water can be pumped direct from the pumping station through the 30-inch and 24-inch cast iron pumping mains into the 40-inch steel distributing main. The Worthington engines are used in connection with these mains and are held in reserve for any possible emergency.

STATISTICS RELATING TO DISTRIBUTING SYSTEM

Our 40-inch pumping main to and distributing main from Payson Park Distributing Reservoir is of steel.

The main pipes are of cast iron.

Sizes, 4-inch to 40-inch.

Extensions during year, 2,055 feet.

Renewals during year, 4,592 feet.

Total now in use:

4-inch	70,206 feet
6-inch	359,534 feet
8-inch	90,899 feet
10-inch	32,634 feet
12-inch	87,679 feet
16-inch	11,605 feet
20-inch	25,275 feet
24-inch	15,367 feet
30-inch	1,357 feet
40-inch	550 feet
	<hr/>
	695,106 feet
	or 131.65 miles

Forty-inch steel main, 23,316 feet or 4.41 miles.

Length in feet, of 2-inch and 3-inch mains, 1.91 miles.

Total number of leaks, 9,025.

Supplies	174
Main pipe	19
Hydrants	7
Gates	11
Street watering standpipes	3
Fountains	2
First Street tunnel	1
Meter	1
Blow off	1
40-inch at Filtration Plant	1
	<hr/>
	220

Found by inspectors 8,805

9,025

Number of leaks on mains, etc., per mile, for the year, 1.67.

There have been no leaks due to electrolysis this year.

MAIN PIPES.

Extensions and Renewals, Year Ending March 31, 1922.

	Extensions		Renewals		Gates
	Feet	Size	Feet	Size	Size
		Ins.		Ins.	Ins.
Agassiz Street to connect with 10 in. in Linnaean St.....			33	6	6
Austin Street to connect Main St.....	299	6			6
Austin Street at Main Street.....					6
Blacknall Street from Putnam Avenue.....	337	6			6
Blacknall Street at Putnam Ave., east.....	28	6			6
Bowdoin Street to connect with 10 in. in Linnaean St.....					6
Carlisle Street from Tremont Street.....			13	6	6
Dale Street from Concord Avenue to Field Street.....	234	6			6
Dale Street at Field St., south.....					6
Doane Street from Foster St.....	26	6			6
Doane Street at Foster St., south.....					6
Douglass Street, from Mass. Ave. to Austin St.....			264	6	
Fifth Street from Potter Street to connect Binney Street.....	456	8			8
Fifth Street at Munroe St., south.....					8
Fifth Street at Binney Street, south.....					8
Foster Place from Foster Street, north.....			225	4	
Foster Place at Foster Street, north.....					4
Foster Street, from Lowell Street to Willard Street.....			1434	8	
Foster Street, relocating hydrant.....			21	6	
Foster Street from Lowell St., east.....					8
Foster Street, opposite Doane Street, on new hydrant.....	21	6			8
Foster Street at Spark St., east.....					8
Foster Street at Sparks St., west.....					8
Foster Street at Willard Street, west.....					8
Green Street (in sidewalk) from Blanche St. to Sidney St.....	59	1¼			
Lincoln Lane from Fayerweather St., west.....	205	6			6
Lincoln Lane at Fayerweather Street, west.....					6
Otis Street from First Street to Second Street.....			381	8	
Otis Street, relocating hydrants.....			29	6	
Otis Street at First Street, west.....					6
Otis Street at Second Street, east.....					8
Sargent Street from Rindge Ave. to Pemberton Street.....			890	8	
Sargent Street, relocating hydrants.....			24	6	
Sargent Street at Rindge Avenue, south.....					8
Sargent Street at Pemberton Street, north.....					8
Tremont Street from Cambridge Street to Hampshire Street...			659	6	
Thorndike Street from First to Second Street.....			379	8	
Thorndike Street at Second Street, east.....					8
Thorndike Street on relocated hydrants.....			26	6	
Union Place from Union Street, north.....			98	2	
Union Place at Union Street.....					2
Union Terrace from Union Street, north.....			116	2	
Union Terrace at Union Street.....					2
Whittemore Avenue cross over to Harvey Street.....	390	6			6
Whittemore Avenue, opposite Kimball Street.....					6
Willard Street at Foster Street, south.....					8

MAIN PIPE — Year ending March 31, 1922

	8 Inch	6 Inch	4 Inch	2 Inch	1¼ Inch	Total
Length, in feet, of cast iron pipe (extensions)	456	1,540				1,996
Length, in feet, of galvanized pipe (extensions) . . .					59	59
Length, in feet, of cast iron pipe (renewals)	3,084	1,069	225	214		4,153
Length, in feet, of galvanized pipe (renewals)						439
Total length, in feet	3,540	2,609	225	214	59	6,647
Number of hydrants						14
Number of gates on extensions		6				
Number of gates on renewals	11	4	1	2		
Number of gates on supplies (attending main pipe renewals)		7	1			57
Number of gates on hydrants		25				
Number of gate boxes						57

HYDRANTS — Year ending March 31, 1922

	Removed	Installed	Equipped with 6 in. gate.
Aberdeen Avenue, 321 feet from Huron Avenue		Chapman	Smith
Aberdeen Avenue, 357 feet from Mt. Auburn Street		Chapman	Smith
Albany Street, opposite Portland St.	Boston	Chapman	Wood
Andrew Street and Fairmont St.	Chapman	Holyoke	
Austin Street, 210 feet Main Street (South Side)		Chapman	Wood
Broadway at Jordan Place	Boston	Chapman	
Brookline Street at Green Street (changed location)	Boston	Chapman	Smith
Cambridge Street and Fourth Street	Boston	Chapman	
Cambridge Street at No. 149 (relocated Chapman)			Wood
Charles River Parkway (No. 983) raised Chapman			Chapman
Concord Avenue at Dale St (relocated Corey)			Smith
Douglass Street on old hydrant at Douglass Ct.			Wood
First Street at Charles St. (reset Chapman)			Wood
Foster Street oposite Doane St.		Chapman	Wood
Foster Street at 39 (relocated)			Wood
Garden Street at Chauncy St.	Boston	Chapman	
Gore Street at Seventh St.	Boston	Chapman	Chapman
Larch Road at No. 71 (relocated)			Wood
Mt. Auburn Street at Channing St.	Perkins	Chapman	Wood
Oris Street, south side, 130 ft. from Second St. (relocated)			Wood
Prospect Street at No. 194 (relocated Chapman)			Kennedy
Putnam Avenue at No. 147	Boston	Chapman	Wood
Putnam Avenue at No. 253	Boston	Chapman	Wood
School Street at Moore Street	Boston	Chapman	Chapman
Second Street at Cambridge Street (relocated Chapman)			Kennedy
Sargent Street, 12 feet north from Pemberton Street		Chapman	Wood
Sargent Street, 385 feet south from Rindge Avenue (relocated) . . .			Wood
Thorndike Street (relocated on South side)			Wood
Tremont Street (relocated opposite Carlisle St.)			Wood
Wadsworth Street at Amherst Street (relocated Perkins)			Wood

TOTAL NUMBER OF HYDRANTS IN USE, 1236

Boston	100	
Chapman	710	
Coffin	41	
Corey	32	
Flush	3	
Holyoke	168	
Kennedy	87	
Mathews	13	
Perkins	82	
	—	1236
Number of hydrants added during year	5	
Number of gates added during year	90	
Range of pressure on mains 55 to 60 pounds.		

SERVICES

Kind of pipe: galvanized iron, cast iron, tin lined, lead lined.

Extended during the year, 3,416 feet.

Sizes, 3/4-inch to 8-inch.

Number of services added during year, 84.

3/4-inch	38
1-inch	21
1 1/4-inch	5
1 1/2-inch	2
2-inch	7
4-inch	6
6-inch	4
8-inch	1
<hr/>	
Total	84

Eleven large supplies were laid this year.

Blake & Knowles Steam Pump Works, Fifth and Binney

Streets	4-inch
Boylston Hall, Harvard University	4-inch
Cambridge Water Works, 78 Auburn Street	4-inch
Filtration Plant, Fresh Pond	6-inch
Filtration Plant, Fresh Pond	8-inch
J. W. Greer, 125 Sidney Street (Fire)	6-inch
Samuel W. Prussian, 864 Main Street (Fire)	6-inch
Standard Oil Co., Sixth Street	4-inch
Suffolk Engraving and Electrotyping Co., Main and Carle-	
ton Streets	4-inch
Thayer & Co., Sidney and Erie Streets (Fire)	6-inch
Union Real Estate Co., 463 Main Street (Fire)	4-inch

Number in use at date, 14,973.

Average length of services for past year, 40 6-10 feet.

Average cost per supply (includes large supplies), \$66.35.

Average cost per supply (labor), \$33.28.

Number of meters added during year, 217.

Total number of meters, 7,096.

Percentage of services (in use) metered, 47 2-10.

SUPPLIES CLEANED

Year ending March 31, 1912	159
" " " " 1913	278
" " " " 1914	471
" " " " 1915	727
" " " " 1916	841
" " " " 1917	896
" " " " 1918	825
" " " " 1919	1,158
" " " " 1920	1,467
" " " " 1921	1,348
" " " " 1922	1,829
Total	9,999

FIRE SUPPLIES

Four (4) fire supplies have been laid during the year.

The following list contains the number of unmetered (except where specified) fire supplies in commission at this date.

Allen & Endicott Building Co.	63 Albany Street	6-in.
American Rubber Co.	Binney Street	6-in.
American Rubber Co.	Potter Street	6-in.
American Circular Loom Co.	Clarendon Avenue	6-in.
American Circular Loom Co.	Tannery Street (metered)	2-in.
American Optical Co.	150 Broadway	6-in.
Ashton Valve Co.	161 First Street	6-in.
Associated Trust	888 Massachusetts Avenue	2-in.
Atwood & McManus	64 Aberdeen Avenue	6-in.
Barber Asphalt Paving Co.	First Street	6-in.
Bell Confectionery Co., J. S.	Sixth Street	6-in.
Blacker & Shepard Co.	Osborn Street (metered)	1½-in.
Blake & Knowles Steam Pump Wks.	Binney Street	8-in.
Blake & Knowles Steam Pump Wks.	Binney Street	6-in.
Blake & Knowles Steam Pump Wks.	Third Street	4-in.
Blanchard Machine Co.	State Street	6-in.
Boston Book Binding Co.	21 Mt. Auburn Street	6-in.
Boston Book Binding Co.	21 Mt. Mt. Auburn Street	4-in.
Boston Confectionery Co.	814 Main Street	6-in.
Boston Confectionery Co.	29 State Street	6-in.
Boston Elevated Railway Co.	Bennett Street	4-in.
Boston Elevated Railway Co.	Baldwin Street	4-in.
Boston Elevated Railway Co.	Massachusetts Avenue	4-in.
Boston Elevated Railway Co.	Mt. Auburn Street	2-in.
Boston Elevated Railway Co.	Mt. Auburn Street	4-in.
Boston Elevated Railway Co.	Murray Street	4-in.
Boston Elevated Railway Co.	Murray Street	6-in.
Boston Elevated Railway Co.	River Street	4-in.
Boston Elevated Railway Co.	University Road	8-in.
Boston & Maine Railroad	Bridge Street	6-in.
Boston & Maine Railroad	East Street	6-in.
Boston & Maine Railroad—in Yard—	Four Cambridge Hydrants.	
Burke, Thos. F.	881 Massachusetts Avenue	2-in.
Cambridge Electric Light Co.	Western Avenue	6-in.
Cambridge Gas Light Co.	Potter Street	6-in.

Cambridge Gas Light Co.	Third Street	6-in.
Cambridge Gas Light Co.	Second Street	6-in.
Cambridge Mutual Fire Insurance Co.	Mass. Avenue (metered)	2-in.
Carr Fastener Co.	27 Ames Street	6-in.
Carr Fastener Co.	31 Ames Street (fire curtain) ...	6-in.
Carr Fastener Co.	43-5 Amherst Street	6-in.
Carter Ink Co.	First Street (metered)	4-in.
Carter Ink Co.	Athenaeum Street	6-in.
Climax Paper Box Co.	20-24 Cottage Park Avenue	4-in.
Close, George	Broadway	6-in.
Columbia Jewelry Co.	Camp Street	6-in.
Commonwealth Custom Laundry	348 Franklin Street (metered) ..	4-in.
Corcoran, John H.	631-637 Mass. Avenue	6-in.
Corcoran, Joseph F.	62 Albany Street	6-in.
Davenport, A. H.	Cambridge Street	6-in.
Davenport, A. H.	Otis Street	6-in.
Dodge Motor Vehicle Co.	29 Landsdowne Street	6-in.
Dover Stamping & Manufacturing Co.	Pleasant Street	6-in.
Dow Co., John C.	220 Portland Street (metered) ...	2-in.
E. & R. Laundry Co.	Mass. Avenue	6-in.
Elliott Addressing Machine Co.	147-153 Albany Street	6-in.
Eustis Manufacturing Co., J. P.	12-16 Ames Street	6-in.
Flash Chemical Co.	Second Street	6-in.
Furbish, Fred B.	41 Church Street	4-in.
Ginn & Co.	First Street	6-in.
Ginn & Co.	Athenaeum Street	Two 6-in.
Goepper Brothers	Ninth Street (metered)	1½-in.
Govern, Anthony	881 Mass. Ave. (metered)	2-in.
Graham & Company, James J.	Otis Street	6-in.
Gray & Sons, Peter	Third Street	6-in.
Greer, J. W.	125 Sidney Street	6-in.
Harvard University	"Austin" Hall	6-in.
Harvard University	Harvard Union	4-in.
Harvard University	Jefferson Physical Laboratory ..	6-in.
Harvard University	Langdell Hall	4-in.
Harvard University	Memorial Hall (metered) ...	Two 4-in.
Harvard University	Kirkland Street (Radio School) ..	6-in.
Harvard University	Observatory	6-in.
Harvard University	Oxford Street (Drill Hall)	6-in.
Harvard University	Semitic Museum	4-in.
Hasty Pudding Club	Holyoke Street	4-in.
Hews Co., A. H.	Richdale Avenue	Two 4-in.
Holy Ghost Hospital for Incurables ..	Cambridge Street	3-in.
Houghton, Mifflin Co.	River Street	6-in.
Howe, Estate of Otis	748 Main Street	6-in.
Hyde, Abe R.	432 Columbia	6-in.
Irving & Casson	108 Cambridge Street	6-in.
Irving & Casson	27 Otis Street	6-in.
Irving & Casson	Otis Street	Two 6-in.
Irving & Casson	Thorndike Street	Two 6-in.
Irving & Casson	Thorndike Street (metered) ...	2-in.
Ivers & Pond Piano Co.	Albany Street	4-in.
Ivers & Pond Piano Co.	Main Street	6-in.
Jacobs, David	37 Osborn Street	6-in.
Kingston Knitting Co.	Carleton and Deacon Streets ...	6-in.
Ladd & Barker	11 Windsor Street	6-in.
Lamb & Ritchie	Albany Street	6-in.
Lever Brothers, Ltd., Boston Works, ..	Harvard Street	8-in.
Lever Brothers, Ltd., Boston Works, ..	Harvard Street	6-in.

Lever Brothers, Ltd., Boston Works, Broadway	6-in.
Lever Brothers, Ltd., Boston Works, Broadway	8-in.
Lever Brothers, Ltd., Boston Works, Portland Street	6-in.
Library Bureau	Albany Street 6-in.
Little, Inc., A. D.	Charles River Road 6-in.
Little, Brown & Co.	Putnam Avenue 6-in.
Little, Brown & Co.	Blackstone Street 6-in.
Luke, Estate of E. H.	Main Street 2-in.
Main Street Trust	Amherst Street 6-in.
Main Street Trust	Amherst Street 6-in.
Manufacturers' Bank Bldg. Trust	Main Street 6-in.
Masonic Temple	1594 Mass. Avenue 4-in.
Mason & Hamlin Co.	Broadway Two 6-in.
McLean, Isaac	Mt. Auburn Street 4-in.
McLean, Isaac	"Brentford Hall" 4-in.
Metropolitan Storage Warehouse Co.	Mass. Avenue 6-in.
Middlesex Co., House of Correction, Second and Spring Streets	6-in.
Monk's Laundry	Norfolk Street 6-in.
Morse, Estate of A. P.	585 Mass. Avenue 6-in.
National Company	120 Brookline Street 4-in.
National Biscuit Company	Franklin Street 4-in.
National Biscuit Company	Franklin Street 6-in.
National Biscuit Company	Green Street 8-in.
National Casket Company	122 First Street 6-in.
National Casket Company	Bent Street 6-in.
Nichols, Annie W. H.	Ames Street 6-in.
North Packing & Provision Co.	Windsor Street 6-in.
Olympia Theatre Co., Inc.	Mass. Avenue 6-in.
Page Box Co., George G.	Hampshire Street Two 6-in.
Payne & Co., F. S.	75 Richdale Avenue 6-in.
Payne & Co., F. S.	Richdale Avenue 6-in.
Peabody, Jr., et al., Francis	Claverly Hall 4-in.
Petterson, Oscar G.	183 Main Street 4-in.
Pierce, Trustees of the Estate of Thomas, Broadway	6-in.
Pi Eta Club	Winthrop Square 2-in.
Poole Piano Co.	Sidney Street 8-in.
Porter, Henry S.	Kinnaird Street (metered) 4-in.
Porter, Henry S.	Kinnaird Street 6-in.
Prest-o-Lite Co.	Concord Avenue 6-in.
Prussian, Samuel W.	864 Main Street 6-in.
Reardon & Sons Corporation, John	Waverly Street (metered) 4-in.
Revere Sugar Refinery	Water Street 6-in.
Revere Sugar Refinery	Ninth Street 6-in.
Reversible Collar Co.	Putnam Avenue 6-in.
Rice & Hutchins, Inc.	Landsdowne Street 6-in.
Riverside Boiler Works	Harvard Street 4-in.
Riverside Boiler Works	Main Street 6-in.
Ross & Co., William F.	201 Bridge Street 6-in.
Russell, Estate of Joseph G.	224 Albany Street 6-in.
Russell, Lucy J.	29 Elm Street (metered) 1½-in.
Sacred Heart Parish	Seventh Street 4-in.
Sawyer & Son, Howard M.	Thorndike Street 4-in.
Sawyer & Son, Howard M.	Spring Street 6-in.
Sawyer & Son, Howard M.	Second Street 6-in.
Scully, Francis P.	First Street 6-in.
Seelye, Francis P.	First Street 4-in.
Sherburne, Estate of Reuben	Third Street 6-in.
Simplex Wire & Cable Company	Auburn Street 8-in.
Simplex Wire & Cable Company	Franklin Street 6-in.

Simplex Wire & Cable Company	Pilgrim Street	4-in.
Simplex Wire & Cable Company	Sidney Street	6-in.
Southwick, Annie E.	684 Mass. Avenue	6-in.
Speare's Sons & Co., Alden	Binney Street	4-in.
Squire Co., J. P.	Gore Street	8-in.
Standard Oil Co.	Potter Street	6-in.
Standard Plate Glass Co.	270 Albany Street	4-in.
Standard Turning Works	Main Street	4-in.
Suffolk Engraving & Electrotyping Co.	Main and Carleton Streets	6-in.
Standard Turning Works	Main Street	4-in.
Swan, Daniel A.	61 Broadway (metered)	2-in.
Thairwell Co., William C.	15 Tudor Street	4-in.
Thayer & Co., Henry	Sidney and Erie Streets	6-in.
Thompson Box Co.	62 Hampshire Street	6-in.
Thompson Box Co.	69 Hampshire Street	4-in.
Thorndike School	Spring Street	4-in.
Tower & Son, Sylvester	Broadway	4-in.
Union Real Estate Trust	463 Main Street	4-in.
University Associates	Bow Street, Garage	6-in.
University Associates	Linden Street	4-in.
University Associates	Mass. Avenue	6-in.
University Associates	Albany Street	4-in.
Ward, Corby Co.	Potter Street	6-in.
Warren Brothers & Co.	Amherst Street	6-in.
Youngman, William S.	Mass. Avenue	4-in.

SUPPLIES ETC. RENEWED — YEAR ENDING MARCH 31, 1922

	10 Inch	8 Inch	6 Inch	4 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	Total
Length, in feet, of cast iron pipe.....	3	3	125	90	37	115	264	847		221
Length, in feet, of galvanized pipe.....				17	10	244	445	2,779	13,413	1,280
Length, in feet, of lead lined pipe.....										16,891
Total length, in feet, of pipe.....	3	3	125	107	47	359	709	3,626	13,413	18,392
Supplies renewed with brass pipe.....									2	2
Supplies renewed with cast iron pipe.....				4						4
Supplies renewed with galvanized pipe.....					3	3	6	31		43
Supplies renewed with lead lined pipe.....					2	10	18	97	448	575
Total number of supplies renewed.....				4	5	13	24	128	450	624
Number of corporation cocks.....										90
Number of sidewalk cocks.....					3	2	13	21	51	73
Number of service boxes.....							13	33	27	54
Number of drip valves.....					6	8	13	46	66	139
Number of gates.....			11							14
Number of gate boxes.....				3						25

Supplies Laid During Past Twenty-one Years.

YEAR	New Supplies	SUPPLIES RENEWED			Total Supplies	Supplies fur- nished with sidewalk ser- vice boxes Renewals
		Application and Leakage	Attending Main Pipe Renewal	Total Supplies Renewed		
1902.....	161	110	167	277	438	51
1903.....	123	174	163	337	460	42
1904.....	111	190	87	277	388	39
1905.....	130	176	117	293	423	177
1906.....	129	230	15	245	374	113
1907.....	135	197	18	215	350	19
*1908.....	110	267	24	291	401	116
†1909.....	29	28	...	28	57	12
‡1910.....	156	332	56	388	544	144
‡1911.....	184	352	79	431	615	131
‡1912.....	229	403	37	440	669	202
‡1913.....	289	485	56	541	830	55
‡1914.....	201	663	29	692	893	81
‡1915.....	154	437	149	586	740	83
‡1916.....	175	615	122	737	912	24
‡1917.....	178	699	95	794	972	67
‡1918.....	126	582	...	582	708	30
‡1919.....	58	637	...	637	695	61
‡1920.....	102	692	...	692	794	72
‡1921.....	87	521	...	521	608	57
‡1922.....	84	575	...	575	659	54

*For year ending November 30, 1908.
†For four months ending March 31, 1909.
‡For year ending March 31.

Comparative Trenching for the Past Seventeen Years.

	MAIN PIPE				SUPPLIES		TOTAL	
	Exten- sion	Re- newals	Subway Changes		New	Re- newals	Feet	Miles
			New	Re- newals				
1906.....	7,443	1,357	....	....	4,835	8,716	22,351	4.23
1907.....	4,377	1,964	....	....	5,433	6,461	18,235	3.45
1908.....	2,877	918	....	....	5,730	8,361	17,886	3.38
1909.....	3,068½	918	....	....	6,674½	9,312½	19,973½	3.80
1910.....	5,361½	2,952	777	6,071	6,090	11,548	32,799½	6.21
1911.....	4,092	519	2,616	4,060	6,541½	13,032	30,860½	5.84
1912.....	5,813	2,424	2,033	3,995	9,476	13,403	37,144	7.03
1913.....	16,459	6,284	50	355	11,988½	16,325	51,461½	9.74
1914.....	11,000	4,154	....	....	8,175½	19,882½	43,212	8.18
1915.....	7,273½	6,290½	....	....	6,894½	17,804½	38,263	7.24
1916.....	5,368	5,360	....	....	6,109	18,293	35,130	6.65
1917.....	11,553	3,417	....	....	6,733	20,887	42,290	8.01
1918.....	3,087	2,907	....	....	4,732	17,385	28,111	5.32
1919.....	2,694	1,779	....	....	1,891	19,829	26,193	4.96
1920.....	3,336	1,387	....	....	3,229	19,637	27,589	5.22
1921.....	6,191	2,023	....	....	3,703	14,597	26,514	5.02
1922.....	2,055	4,592	....	....	3,416	18,392	28,455	5.35

Fiscal year ends March 31.

METERS—Domestic, Industrial etc.

	8 Inch	6 Inch	4 Inch	3 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	⅝ Inch	Total
Artic.....	1	1
Crest.....	2	1	4	2	...	...	...	...	9
Crown.....	1	2	...	2	4	5	14
Empire.....	...	1	2	...	...	...	...	1	...	...	4
Gem.....	11	...	...	...	...	...	...	...	11
Hersey.....	...	2	2	13	49	20	8	115	272	753	1,234
Keystone.....	2	...	...	...	...	35	130	367	534
King.....	1	4	5
Lambert.....	4	24	141	169
Nash.....	8	3	11
Thomson.....	3	...	3
Torrent.....	5	...	...	...	...	...	5
Trident.....	1	18	13	5	114	248	495	894
Union Rotary.....	2	4	3	3	...	1	5	2	20
Watch Dog.....	3	32	35
Worthington.....	11	37	115	94	106	237	806	2,609	4,015
	...	3	32	56	195	134	119	509	1,504	4,412	6,964

Meters on School Houses, Public Buildings, etc.

	6 Inch	4 Inch	3 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	⅝ Inch	Total
Crown.....	...	...	...	3	...	...	1	1	1	6
Hersey.....	...	...	1	...	...	2	6	5	1	15
Keystone.....	...	...	...	...	...	...	1	...	...	1
Torrent.....	...	...	...	1	...	...	...	...	...	1
Trident.....	...	...	...	...	...	...	8	1	2	11
Union Rotary.....	...	...	...	2	...	...	...	...	...	2
Worthington.....	1	1	2	5	10	4	6	3	3	35
	1	1	3	11	10	6	22	10	7	71

Meters on Fire Supplies.

	8 Inch	6 Inch	4 Inch	3 Inch	Total
Hersey Detector.....	3	37	9	5	54
Protectus.....	1	6	...	...	7
	4	43	9	5	61

Total number of meters added during the year,
Total number of meters in use at date
Percentage of service (in use) metered

217
7,096
47½

FIRE SUPPLY METERS

There have been no fire supply meters set during the year on fire supplies.

There are now sixty-one (61) of these meters in use.

They are located as follows:

Allen & Endicott Building Company, Main Street	.....6-inch on new supply
Allen & Endicott Building Company, Osborne Street	....6-inch on new supply
American Net & Twine Company, Second Street	.....6-inch on old supply
American Net & Twine Company, Third Street	.....6-inch on old supply
Atwood & McManus, 64 Aberdeen Avenue	.....6-inch on new supply
Baker, Brownrigg K., Osborne Street (premises)	.....6-inch on new supply
Barbour Stockwell Company, Broadway (premises)	....6-inch on new supply
Blacker & Shepard Company, 80 State St. (premises)	..4-inch on new supply
Blake & Knowles Steam Pump Works, Binney and Fifth Streets (premises)	.....6-inch on new supply
Brigham Company, C., Albany Street	.....6-inch on new supply
Briggs, C. A., 418 Main Street	.....6-inch on new supply
Boston Woven Hose & Rubber Co., Hampshire St.	.....6-inch on old supply
Boston Woven Hose & Rubber Co., Portland St.	.....6-inch on old supply
Cambridge Paper Box Company, Broadway	.....6-inch on old supply
Carr Fastener Company, Ames Street	.....6-inch on new supply
Charlsam Real Estate Company, 100 Main Street (premises)	.....6-inch on new supply
Davis, F. H., 175 Richdale Avenue	.....6-inch on new supply
Dyar Supply Company, Broadway	.....4-inch on new supply
Filene's Sons Company, W., Charles River Road	.....6-inch on new supply
Ford Motor Company, Brookline Street (premises)	....6-inch on new supply
Gray & Davis, Inc., Amesbury Street (premises)	.....8-inch on new supply
Hammett & Company, J. L., Main and Hayward Sts. (premises)	.....6-inch on new supply
Hathaway & Sons, C. F., 15 Richdale Avenue	.....4-inch on new supply
Hathaway & Sons, C. F., 15 Richdale Avenue	.....4-inch on old supply
Harvard University, Divinity Avenue (premises)	.....6-inch on new supply
Harvard University, Oxford Street (premises)	.....6-inch on new supply
Harvard University, Widener Library (premises)	.....3 inch on new supply
Hingham Knit Goods Company, Banks St. (premises)	..4-inch on new supply
Houghton, H. O. (Riverside Press), 20 Blackstone St.	....6-inch on old supply
Howe Estate, 748 Main Street	.....4-inch on new supply
Kemp & Sons, Lysander, Broadway (premises)	.....6-inch on new supply
Ladd & Barker, 31 Ames Street	.....6-inch on old supply
Ladd & Barker, Amherst Street (premises)	.....6-inch on new supply
Lankofsky, Baila, 329 Elm Street	.....4-inch on new supply
Lonergan, Adeline J., Massachusetts Avenue	.....3-inch on new supply
Mass. Institute of Technology, Ames & Amherst Sts.	...6-inch on new supply
Mass. Institute of Technology, 75 Massachusetts Ave.	....8-inch on new supply
Mass. Institute of Technology, Vassar Street	.....8-inch on new supply
McGoldrick, H. E., 339 Franklin Street	.....3-inch on new supply
Morey & Company, Commercial Avenue (premises)	...6-inch on new supply
Murray & Emery, Wadsworth Street	.....6-inch on new supply
National Casket Company, Bent and Third Streets	....6-inch on new supply
New England Tel. & Tel. Co., 51 Inman Street	.....3-inch on new supply
Page & Shaw, 18-20 Ames Street (premises)	.....6-inch on old supply
Penn Metal Company, 112-114 Sidney St. (premises)	...6-inch on new supply
Penn Metal Company, Concord Avenue	.....6-inch on new supply
Promboin & Son, L., 449 Windsor Street (premises)	...6-inch on new supply

Purity Distilling Co., Distillhouse St. (premises)	6-inch on new supply
Reardon & Sons' Corporation, John, Waverly St.	8-inch on new supply
Revere Sugar Refinery, Ninth Street	6-inch on new supply
Riverside Boiler Works, 493 Main Street (premises) ...	6-inch on new supply
Russell & Company, Norfolk Street	6-inch on new supply
Squirrel Brand Nut Company, 10-12 Boardman St.	4-inch on new supply
Standard Oil Company, Sixth Street	4-inch on old supply
Standard Oil Company, Fifth & Potter Sts. (premises) ..	3-inch on new supply
Sterling Knit Goods Company, Stiles Street	6-inch on old supply
Sugarman Brothers, 541 Windsor Street	6-inch on new supply
University Press, Nutting Place	6-inch on old supply
University Press, University Road	6-inch on new supply
Ward Baking Company, Albany Street	6-inch on old supply
Wheelock Lovejoy Company, Sidney Street	6-inch on new supply

FOUNTAINS

There are twenty-nine (29) fountains in use in the city.

The nine (9) ice water fountains as tabled, the eleven (11) fountains equipped with faucets only, as required by the Board of Animal Industry and the small drinking fountains of which there are eight (8) in use.

Those equipped with faucets only are as follows:

Brattle Square ("Gould")
 Craigie Square
 Kelley Square
 Kendall Square
 Massachusetts Avenue at Porter Square
 Massachusetts Avenue at Tannery Street
 Massachusetts Avenue at Washburn Avenue
 Mt. Auburn Street, opposite Coolidge Avenue ("Jenks" for horse)
 Norton Square
 Putnam Avenue
 Wyeth Square

The following drinking fountains are in use:

Baldwin Street at Cambridge Street ("Jones" bubble)
 Broadway at Norfolk Street ("Jones" bubble)
 Charles River Road, East side Mass. Ave., opp. M. I. Technology (bubble)
 Two (2) Fresh Pond Driveway ("Jenks" bubble)
 McNamee Square ("Jones" bubble)
 Mt. Auburn Street in Parkway ("Jones" bubble)
 Tech Street ("Jenks" bubble)
 Western Avenue ("Mill Pond Playground") ("Jenks" bubble)

A "Gould" fountain has been set in Brattle Square to replace one that was leaking.

ICE WATER DRINKING FOUNTAINS

The Cost of Furnishing Fountains with Ice During the Summer Months for the Past Eighteen Years.

Year	LOCATION									COST	
	Cambridge Field	Cambridge Street at Third Street	Central Square	Harvard Square	Kendall Square	Mass. Ave. at Blake St.	Mass. Ave. at Cameron St.	Putnam Square	Rindge Field	Total Cost per Year	Average Cost per Day per Fountain
1904	...	\$145.50	\$112.50	\$105.60	...	\$ 96.75	...	..	...	\$460.35	\$1.20
1905	...	125.55	129.90	103.43	...	155.30	...	..	...	514.18	.94
1906	...	180.95	175.35	166.69	...	157.25	\$115.40	..	...	795.64	1.57
1907	\$102.37	110.50	127.13	110.50	...	102.74	102.25	..	...	655.49	1.09
1908	89.49	127.00	134.38	127.87	...	111.50	115.75	..	...	705.99	1.04
1909	121.05	185.68	124.50	122.70	...	141.60	127.95	..	...	823.48	1.15
1910	134.10	149.70	...	134.55	...	140.25	154.05	..	...	712.65	1.24
1911	123.60	167.65	...	127.20	...	146.70	169.05	..	...	734.20	1.34
1912	120.30	134.85	108.15	120.75	...	139.95	165.00	..	\$129.75	918.75	1.25
1913	135.82	174.19	175.22	138.02	...	119.22	116.33	..	112.01	970.81	.97
1914	113.77	149.57	152.88	113.78	...	64.82	74.45	..	78.41	747.68	.78
1915	89.67	120.41	109.80	83.49	...	77.09	84.44	\$65.85	89.08	719.83	.74
1916	63.21	118.87	116.43	87.31	...	49.24	62.62	63.49	62.47	623.64	.79
1917	62.85	136.49	133.56	101.10	...	83.47	82.24	83.47	83.47	766.65	1.37
1918	110.45	216.52	183.35	152.29	110.45	110.45	99.88	122.10	110.45	1,216.04	1.57
1919	98.00	207.51	156.40	130.34	97.21	98.00	98.00	102.71	98.00	1,086.17	1.68
1920	97.22	192.47	155.23	125.44	97.21	97.21	97.21	103.49	97.21	1,062.69	1.82
1921	124.66	378.82	202.27	168.56	125.44	124.66	125.44	133.27	125.05	1,508.17	1.58

STONY BROOK OVERFLOW

	Gallons	Days	Rainfall
1921			
April.....	308,800,000	30	3.33
May.....	886,000,000	31	5.06
June.....	1,500,000	1	2.63
July.....	997,900,000	27	8.76
August.....	228,600,000	19	1.45
September.....	...	...	1.90
October.....	131,200,000	3	1.45
November.....	...	...	7.76
December.....	...	...	2.52
1922			
January.....	...	...	1.57
February.....	...	...	3.20
March.....	797,100,000	24	4.48
Total	3,351,100,000	...	...
No. of days in which water wasted.....	...	135	...
Total rainfall.....	...	...	44.11

The decrease in the gallons overflow was due to the raising of the elevation of the crest of the Stony Brook waterway, two feet which provided for an additional storage for 48,000,000 gallons of water that usually wasted into Charles River.

Stony Brook Overflow, Etc., for the Past Thirty-five (35) Years.

	Gallons	No. of Days	Rainfall
1888.....	6,000,000,000	...	....
1889.....	8,000,000,000	...	....
1890.....	8,700,000,000	...	....
1891.....	8,247,800,000	...	45.25
1892.....	3,688,900,000	...	39.82
1893.....	4,427,400,000	...	39.50
1894.....	2,853,000,000	...	35.79
1895.....	5,281,900,000	224	50.52
1896.....	5,704,700,000	224	50.52
1897.....	3,999,700,000	256	43.35
1898.....	5,704,600,000	260	54.03
1899.....	6,969,500,000	175	43.96
1900.....	4,447,100,000	145	51.34
1901.....	6,141,300,000	157	46.77
1902.....	6,359,100,000	182	44.58
1903.....	6,437,500,000	222	45.97
1904.....	5,726,399,000	171	41.18
1905.....	3,148,900,000	140	38.40
1906.....	3,510,700,000	170	39.16
1907.....	2,415,900,000	147	42.32
*1908.....	3,384,300,000	184	48.23
†1909.....	960,800,000	50	
‡1910.....	2,531,500,000	137	
‡1911.....	57,200,000	22	31.78
‡1912.....	1,395,200,000	69	42.63
‡1913.....	2,571,200,000	132	41.22
‡1914.....	3,022,800,000	99	42.13
‡1915.....	3,477,200,000	111	34.44
‡1916.....	2,581,900,000	136	41.90
‡1917.....	4,091,800,000	141	37.11
‡1918.....	2,386,100,000	136	38.69
‡1919.....	2,186,400,000	111	41.24
1920.....	5,502,900,000	173	51.33
1921.....	5,727,600,000	217	40.52
1922.....	3,351,100,000	135	44.11

*Previous to 1908—Fiscal year ended November 30.
†Overflow from December 1, 1908 to March 31, 1909.
‡Fiscal year ended March 31.

Lincoln Street, Basin No. 1				Winter Street, Basin No. 2				Rain-fall by Month	Stony Brook Reservoir†			
	Highest Elevation During Month	Lowest Elevation During Month			Highest Elevation During Month	Lowest Elevation During Month			Highest Elevation During Month	Lowest Elevation During Month	Rain- fall by Month	
1921				1921								
April 15.....	.....	181.40	.....	April 15.....	.....	181.40	.....	.....	.....	81.10	3.33	.....
April 25.....	181.51	.....	181.25	April 25.....	181.25	.....	.....	.....	81.40	.....	.....	.....
May 2.....	181.90	.....	181.90	May 2.....	181.90	.....	.....	.....	82.33	.....	.....	.....
May 31.....	.....	181.37	.....	May 31.....	.....	181.37	.....	.....	.....	81.10	5.06	.....
June 1.....	181.35	.....	181.35	June 1.....	181.35	.....	.....	.....	81.06	.....	.....	.....
June 26.....	.....	181.00	.....	June 26.....	.....	181.00	.....	.....	.....	72.44	2.63	.....
July 1.....	.....	181.35	.....	July 1.....	.....	181.35	.....	.....	.....	74.42	.....	.....
July 10.....	182.07	.....	182.07	July 10.....	.....	.....	.....	.....	.....	.....	8.76	.....
Aug. 1.....	181.55	.....	181.55	Aug. 1.....	.....	.....	.....	.....	81.62	.....	.....	.....
Aug. 31.....	.....	181.18	.....	Aug. 31.....	.....	181.18	.....	.....	.....	77.96	1.45	.....
Sept. 1.....	181.17	.....	181.17	Sept. 1.....	.....	.....	.....	.....	77.56	.....	.....	.....
Sept. 30.....	.....	179.98	.....	Sept. 30.....	.....	179.98	.....	.....	.....	71.48	1.90	.....
Oct. 1.....	179.93	.....	179.93	Oct. 1.....	.....	.....	.....	.....	82.02	.....	.....	.....
Oct. 17.....	.....	178.25	.....	Oct. 31.....	.....	178.18	.....	.....	.....	74.54	1.45	.....
Oct. 17.....	.....	178.49	.....	Nov. 13.....	.....	178.15	.....	.....	74.12	.....	.....	.....
Nov. 1.....	.....	.....	.....	Nov. 30.....	.....	.....	.....	.....	.....	69.49	7.76	.....
Nov. 30.....	180.87	.....	180.87	Dec. 1.....	.....	178.67	.....	.....	.....	71.94	.....	.....
Dec. 1.....	180.87	.....	.....	Dec. 30.....	.....	180.09	.....	.....	80.48	.....	2.52	.....
Dec. 31.....	.....	180.87	.....								
1922				1922								
Jan. 1.....	.....	.....	.....	Jan. 1.....	.....	180.11	.....	.....	80.12	.....	.....	.....
Jan. 31.....	180.87	.....	180.87	Jan. 31.....	.....	.....	.....	.....	.....	73.25	1.57	.....
Feb. 1.....	.....	180.87	.....	Feb. 1.....	.....	180.72	.....	.....	.....	72.18	.....	.....
Feb. 28.....	.....	.....	.....	Feb. 28.....	.....	.....	.....	.....	74.75	.....	3.20	.....
Mar. 1.....	181.67	.....	181.67	Mar. 1.....	.....	181.68	.....	.....	.....	74.56	.....	.....
Mar. 31.....	.....	181.68	.....	Mar. 31.....	.....	.....	.....	.....	83.78	.....	4.4	.....
Total.....	.....	.....	.....	.....	.....	.....	.....	47.62	.....	.....	44.11	.....

*January, 1922. Elevation of crest raised from 181. to 183.50.
†January, 1922. Elevation of crest raised from 81. to 83.

PUMPING STATISTICS

1. Builders of pumping machinery: One Leavitt engine of 20,000,000 gallons capacity per 24 hours, built by Groshon High Duty Pumping Engine Company. Two Worthington Compound Duplex engines of 5,000,000 gallons capacity each per 24 hours. Total capacity, 30,000,000 gallons per 24 hours.
2. Description of fuel: Kind, bituminous. Brand and price of coal: "New River" at \$9.23 to \$7.13 per ton.
3. Coal consumed during year, 5,949,300 pounds.
Daily average coal consumed, 16,299 pounds.
Coal per million gallons pumped, 1,471 pounds.
Total pumpage for the year without allowance for slip, 4,042,409,300 gallons.
Daily average, 11,075,094 gallons.
4. Average static head against which the pump works, 157.65.
5. Average dynamic head against which the pump works, 189.79.
7. Duty, 107,550,836.
8. Cost of pumping figured on pumping station expenses, viz: \$55,874.02.
9. Per million gallons pumped, \$13.82.
10. Per million gallons raised one foot (dynamic) \$.07 3-10.

STATISTICS OF CONSUMPTION OF WATER

For the year extending from April 1, 1921, to March 31, 1922.

Total population, census of 1920, 109,506.

Estimated population supplied on lines of pipes, 114,900.

Total pumpage for the year, 4,042,409,300 gallons.

Average daily pumpage, 11,075,094 gallons.

Gallons per day to each inhabitant (pumpage), 96.38.

Gallons per day to each tap in use (pumpage), 739.

Total cost of supplying water per million gallons pumped figured on "Total Maintenance" (\$414,436.91), \$102.53.

Cost of supplying water per million gallons pumped, figured on "Operating Expenses" (\$323,945.83), \$80.14.

FINANCIAL STATEMENT

April 1, 1921 to March 31, 1922

Maintenance, "General Account"Operating
Expenses

A—Personal Service :

1-2. Permanent and Temporary

Employees

\$159,004 60 \$138,901 54

3. Unassigned employees

2,700 00

B—Service other than personal.....

21,647 82 21,647 82

C—Equipment

15,999 24 15,999 24

D—General plant, supplies

12,355 91 12,355 91

E—Materials

38,463 01 35,685 24

F—Special Items

5,213 88

5,213 88

4. Serial Loan

20,500 00

5. Interest

38,058 75

14. Refunds

772 40

64,545 03

G—Incidental Expenditures

2,148 70 2,148 70

\$316,864 31

With new supplies, serial loan, interest and refunds deducted \$231,952 33

Maintenance, "Pumping Account"

A—Personal Service

1-2. Permanent and Temporary

Employees

\$22,174 64

B—Service other than personal.....

2,228 60

C—Equipment

754 20

D—General plant, supplies

30,669 97

E—Materials

46 61

\$55,874 02 \$55,874 02

Maintenance, "Reservoir Account"

A—Personal Service

1-2. Permanent and Temporary

employees

\$29,797 49

3. Unassigned employees

240 00

B—Service other than personal.....

4,626 86

C—Equipment

179 11

D—General plant, supplies

1,276 02

E—Materials

5,579 10 36,119 48

\$41,698 58

Total operating expenses \$323,945 83

Total expenses for the year \$316,864 31

Pumping 55,874 02

Reservoirs 41,698 58

414,436 91

Payson Park Repairs 1,642 53

Filtration Plant 454,837 52

\$870,916 96

The important work of the year is our filtration plant. In June, 1921, the contracts for the plant were made with Coleman Bros., Inc., of Charlestown, Mass., for construction, and with Roberts Filter Manufacturing Co., of Darby, Pa., for the equipment. All work is performed under Mr. George A. Johnson's plans.

Excavation was immediately commenced, and we were fortunate in having most suitable weather through the Winter months. The work went forward rapidly, and at date of writing it would seem as if in the coming December the plant would be in operation.

The delays in accomplishing this most important addition to the Water Department have been many and discouraging—the war, high cost of materials, freight delays and lack of appropriation. But the visible, substantial construction that has been erected at Fresh Pond is an existing proof that we are to have a filtration plant equal to any in the United States.

The water consumers of Cambridge are to be congratulated, as I believe it will add to our reputation for progressiveness.

From time to time we have had photographs taken which give a general idea of the progress of the work.

Anticipating this improved condition, we have annually worked, so far as was possible financially, to prepare our city's mains for the reception and delivery of pure, clean water to our customers.

During the current year we have cleaned 36,922 feet of main pipe in sizes from 6 inches to 12 inches, and since 1917, when we commenced seriously to consider the necessity for cleaning our mains, we have cared for 23.7 miles in sizes from 6 inches to 20 inches.

We have also removed old 4 inch and 6 inch pipes, which have been inadequate for supplying the increased population or too old to consider the expense of cleaning, and replaced same with larger mains.

Our extensions have been small during the year, only 2,055 feet of pipe having been paid; our older pipes have been well cared for and are in good condition.

In the fall of 1921, we made an addition to our storage basin at Stony Brook Reservoir, raising the grade of the overflow crest

two feet, from elevation 81.00 to elevation 83.00, and so securing an additional storage capacity of 48 million gallons.

In the winter of 1921-1922 we made the same improvement at our Hobbs Brook Reservoir, raising the grade of crests two feet, from elevation 181.25 to 183.25, and so increasing these basins' capacities 489 million gallons.

The total increased storage capacity thus created is 537 million gallons.

Stony Brook Reservoir gradually filled until March 8, 1922, when it overflowed the new crest. At date the gauge reads 83.55 which represents an overflow of 35,000,000 gallons daily into the Charles River.

Hobbs Brook Reservoir filled on March 13, 1922, and at writing the gauge read 183.59.

The cost of these changes was as follows:

Hobbs Brook Reservoir

Labor	\$1,979 09	
Materials	3,854 52	
	<hr/>	\$5,833 61

Stony Brook Reservoir

Labor	\$371 03	
Materials	404 24	
	<hr/>	775 27

\$6,608 88

At our pipe yard we made a few improvements. A steam heating plant has been installed in the shop.

The Meter Department has been moved upstairs over the shop and the old meter shop has been taken into the garage, giving us increased space, which we much needed.

The Water Department has never had a detailed list and plan of the gate valves in the city. This year we have made a systematic survey and are gathering the data for complete information in regard to the important shut offs.

We have been criticized by the National Board of Underwriters for this condition, but our works were very old and the sketches unreliable, and as we have collected the information it has been carefully recorded.

We have this year equipped four gates at Payson Park Reservoir with the Dean Electric controls. Last year three of our gates on Huron Avenue were similarly equipped, so that we now have seven important gates on our forty-inch line that can be regulated from our pumping station.

A suitable house has been built over the gates and controls on Huron Avenue.

Respectfully submitted,

TIMOTHY W. GOOD,
General Superintendent, Cambridge Water Works.

REPORT OF THE OVERSEERS OF THE POOR

April 1, 1922.

To His Honor the Mayor and the Honorable City Council,
City of Cambridge, Mass.

Gentlemen:

The Board of Overseers of the Poor herewith submit their annual report for the year ending March 31, 1922.

At the annual meeting held May 5, 1921, Rev. John R. McCool was unanimously re-elected chairman of the Board.

Unemployment was the cause of the increased expenditures during the year just closed. This condition has been general throughout the Commonwealth.

At the present time there are fewer applications made, because of unemployment, but despite optimistic statements regarding the industrial situation, we feel that the demands upon this department during the coming winter will be nearly, if not fully as great as during the past winter.

The cost of maintaining the department is as follows:

	Expenditures	Receipts	Net Cost
Outside Aid	\$222,922.14	\$58,273.16	\$164,648.98
City Home	39,438.26	4,689.02	34,749.24
	<hr/>	<hr/>	<hr/>
	\$262,360.40	\$62,962.18	\$199,398.22

The expenses in detail may be found on the pages following.

Respectfully submitted,

JOHN R. McCOOL, Chairman,
GEORGE P. O'BRIEN,
BERNARD B. WELCH,
EDMUND A. WHITMAN,
GEORGE D. COLGAN,
CHARLES J. WILLIAMS,
LEOPOLD BARTEL.

EXPENDITURES

OUTSIDE AID

Personal Service		
Salaries, Permanent Employees	\$11,840.00	
Salaries, Temporary Employees	95.00	\$11,935.00
<hr/>		
Service Other Than Personal		
Printing and Binding	\$31.11	
Postage	32.10	
Transportation of persons	1,560.23	
Light and Power	36.21	
Rent	124.46	
Communication	126.02	
Motor vehicle repairs and care	119.24	
Care of persons	1,975.99	
Medical	5.00	
Fees	11.00	
Burial	77.00	
Miscellaneous	32.77	\$4,131.13
<hr/>		
Equipment		
Office	\$265.99	
Wearing apparel	675.56	\$941.55
<hr/>		
Supplies		
Office	\$248.33	
Food and ice	22,543.30	
Fuel	1,323.36	
Medical and surgical	942.81	
Motor vehicle	124.50	
Miscellaneous	11.31	\$25,193.61
<hr/>		
Special Items		
Care of dependents	\$92,613.52	
Mothers' aid	88,107.33	\$180,720.85
<hr/>		
Total Expenditures, Outside Aid		\$222,922.14

CITY HOME

Personal Service		
Salaries and wages, permanent employees....	\$16,509.72	
Salaries and wages, temporary employees	272.43	\$16,782.15
<hr/>		
Service Other Than Personal		
Postage	\$15.00	
Transportation of persons	349.91	
Hire of auto	150.00	
Light and power	515.18	
Communication	99.54	
Motorless vehicle repairs	9.55	
Care of persons	30.00	
Medical	12.00	
Religious	53.00	
Burial	68.00	
Miscellaneous	325.89	
Harness repairs	32.73	
Horseshoeing	68.31	\$1,729.51
<hr/>		

Equipment

Furniture and fittings	\$862.80	
Tools and instruments	10.29	
Wearing apparel	765.73	\$1,638.82

Supplies

Office	\$46.12	
Food and ice	11,992.05	
Fuel	3,069.52	
Forage and animal	448.31	
Medical and surgical	589.88	
Laundry, cleaning toilet	155.87	
Agricultural	443.73	
Disinfectants	106.12	
Tobacco	297.60	
Miscellaneous	986.61	\$18,135.81

Materials

Building	\$442.72	\$442.72
----------------	----------	----------

Special Items

Care of dependents	\$709.25	\$709.25
--------------------------	----------	----------

Total Expenditures, City Home		\$39,438.26
-------------------------------------	--	-------------

RECEIPTS
OUTSIDE AID

Cities and Towns

Temporary aid	\$394.68	
Mothers' aid	2,259.17	\$2,653.85

Individuals	\$175.00	\$175.00
-------------------	----------	----------

Commonwealth of Massachusetts

Mothers' aid	\$42,198.93	
Temporary aid	11,219.19	
Sick State poor	2,026.19	\$55,444.31

CITY HOME

Individuals	\$2,768.64	\$2,768.64
-------------------	------------	------------

Cash Sales	\$1,920.38	\$1,920.38
------------------	------------	------------

Total receipts		\$62,962.18
----------------------	--	-------------

REPORT OF CITY PHYSICIAN

Cambridge, Mass., March 31, 1922.

To His Honor the Mayor, and the Honorable City Council of the
City of Cambridge:

Gentlemen:

The report of the City Physician for the twelve months ending
March 31, 1922, is hereby rendered:

CITY HOME

Number of visits	274
Number of persons attended there	135
Number of deaths	26
Number of patients admitted to hospital wards	80
Cost of medicines and surgical appliances	\$589.88
Medical assistance	\$12.00

OUTSIDE AID

Number of persons attended for Overseers of the Poor	1,206
Number of visits to the same	1,719
Number of persons sent to outside hospitals for treatment	5
Number of outside deaths	9
Number of outside births	14
Cost of medicines and surgical appliances	\$942.81
Cost of medical assistance	\$100.00

DEPARTMENTAL

Number of persons attended at police stations	29
Number of visits to the same	29
Number of persons examined for the law department	8
Number of visits to the same	8
Number of employees examined for injuries	5
Number of visits to the same	5
Number of vaccinations for the school committee	405
Number of visits to the same	405
Number of employees examined for retirement	3
Number of visits to the same	3
Number of firemen examined for retirement	3
Number of visits to the same	3
Number of firemen examined for reinstatement	1
Number of visits to the same	1
Total number of persons receiving professional care	1,800
Total number of visits to the same	2,454

I wish to thank all the officials connected with the department
for their kind and courteous treatment, and material help.

Respectfully submitted,

WILLIAM G. BROUSSEAU, M.D.,
City Physician.

REPORT OF THE CAMBRIDGE CITY HOSPITAL TRUSTEES

Cambridge, Mass., April 10, 1922.

To His Honor, the Mayor and City Council:—

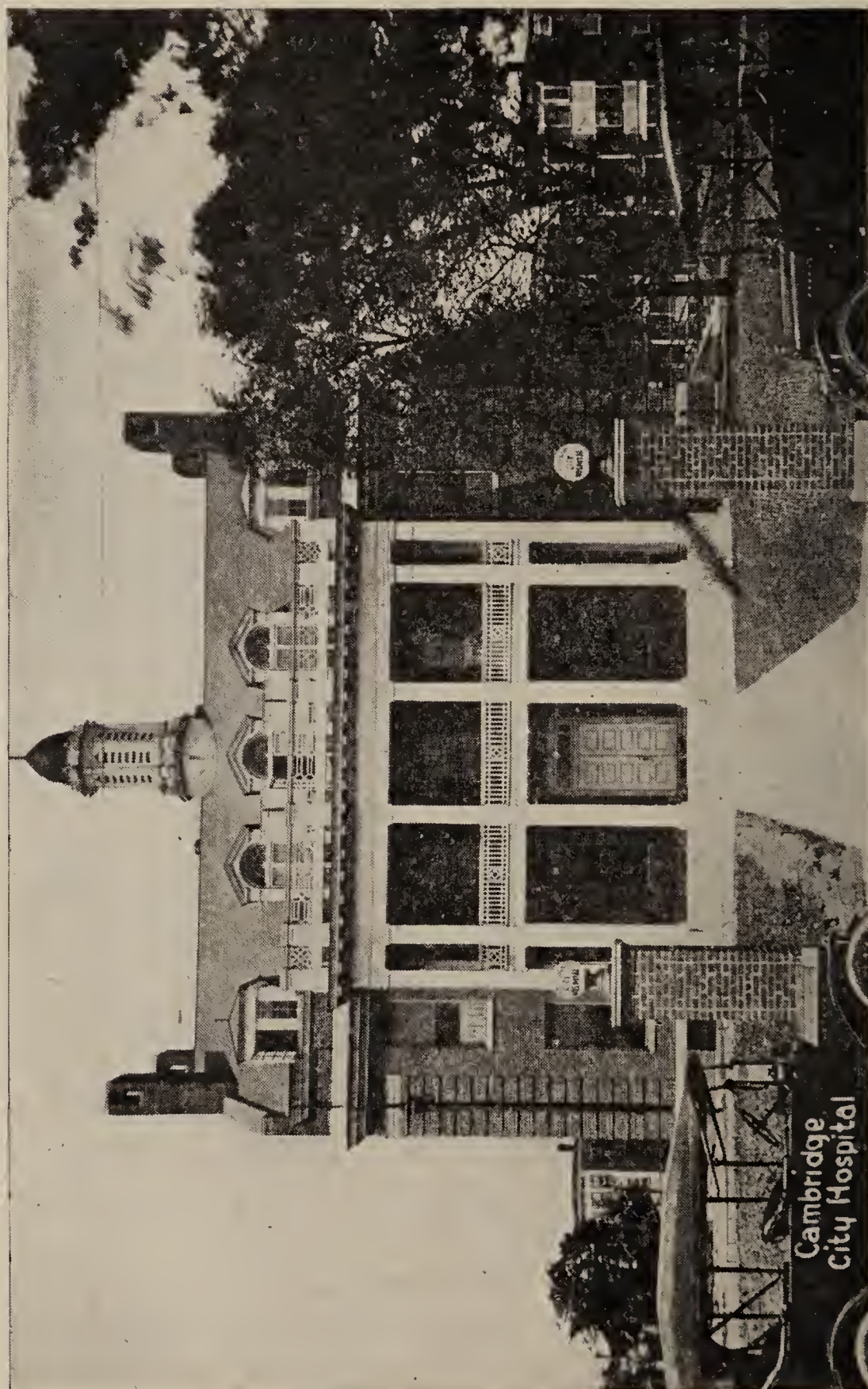
As required by City ordinance the trustees of the Cambridge City Hospital submit herewith its fifth annual report, the same being for the year ending March 31, 1922.

Early in the year notice was received from the City Clerk that John J. Quinlan (who had been serving out the unexpired term of Dr. Charles H. Thomas who died in September 1920) had been appointed for the full term of five years ending in May, 1926.

On June 3, 1921, the second graduation exercises of pupil nurses who had completed the required course was held. In the presence of a notable gathering of doctors, professional nurses and friends, several young women as follows were awarded diplomas: Misses Armour, Fitzsimmons, Flood, Kelliher, MacLeod, Leath and Ormond. Doctor Charles S. Cahill, president of the Board, presided at these exercises; and His Honor the Mayor, Edward W. Quinn, presented the diplomas and gave a very appropriate address. Dr. Daniel F. Mahoney, a senior surgeon of the Hospital staff, also addressed the graduating class and instructed them in their duties as professional nurses.

Work on the new wing of the Hospital, which had been stopped in the month of January on account of labor troubles, was resumed the latter part of June and progressed uninterruptedly until completion early in the month of January, 1922.

In the new wing of the hospital there are three stories of fire-proof construction. The building is of water struck brick with white pine trimmings, reinforced concrete floors and blue slate roof. In style it goes back to the colonial. On the ground floor there is an Out-Patient Department fully equipped with all the necessary rooms for that service. There are male and female medical examination rooms and waiting rooms, a large general waiting room and cataloguing space, an eye suite, ear suite, nose



CAMBRIDGE CITY HOSPITAL

and throat rooms; also accident operation suite, a septic operating room, an X-Ray suite, and isolation rooms for delirious cases.

On the street floor there are private rooms, baths, wards of varying size, and a large ward of 20 beds with an outside balcony. There are also the utility room, diet kitchen, medicine closet, linen closet and all service required for rooms and wards.

The second story has a similar arrangement of rooms including a maternity suite with double operating rooms, a baby room and bath, in fact, all accommodations for that order of service.

Balconies are used as extension of wards wherever possible. The heating, plumbing and electric equipment is most complete and according to requirements of such a building today. We hope at some later date to be able to construct an east wing to the main hospital, thus completing what will be a letter U type of general hospital.

During the latter part of the year 1921, certain rumors were abroad concerning defects in the construction work of the hospital, and statements were made in the City Council which were called to the attention of the Trustees. Because of this it was thought advisable to arrange for an inspection of the work. To this inspection were invited the Mayor and members of the City Council, the Superintendent of Public Buildings, the architect, the engineer, the general contractor and all sub-contractors.

At the inspection a large number of persons were present and a thorough investigation was held. Soon after this inspection the Trustees were very much gratified to receive a copy of the vote of the City Council expressing confidence in the Trustees, the work of the architect and contractors.

We are certain that we have a hospital building that reflects credit on all who were in any way connected with its construction, and when fully equipped, of which the people of Cambridge will be justly proud.

In the month of November, 1921, the Trustees requested of the Mayor and City Council an additional appropriation for construction and equipment. This was thought advisable as the new wing was nearing completion and would soon be ready to receive patients. In February, 1922, in accordance with this request, notice was received that an appropriation of forty thousand dollars had been provided.

The new wing will be ready for occupancy at an early date and hereafter we will be able to accommodate as many as 100 patients daily.

The following is the Hospital Staff on March 31, 1922:

SURGICAL STAFF

DR. GEORGE F. McINTIRE, 69 Bay State Road, Boston (Chief)
DR. HENRY H. GERMAIN, 43 Bay State Road, Boston
DR. WILLIAM A. NOONAN, 770 Massachusetts Avenue, Cambridge
DR. WALTER C. FEELEY, 859 Massachusetts Avenue, Cambridge
DR. EDWARD J. O'BRIEN, 543 Boylston Street, Boston
DR. DANIEL F. MAHONEY, 520 Commonwealth Avenue, Boston
DR. JOHN J. MURPHY, 2192 Massachusetts Avenue, Cambridge

MEDICAL STAFF

DR. FRANCIS J. BARNES, 67 Brattle Street, Cambridge (Chief)
DR. FELIX F. McGIRR, 1436 Cambridge Street, Cambridge
DR. WILLARD A. PUTNAM, 16 Garfield Street, Cambridge
DR. JOHN F. FAIR, 9 Dana Street, Cambridge
DR. WILLIAM H. CLANCY, 80 Otis Street, Cambridge
DR. ANDREW F. DOWNING, 335 Huron Avenue, Cambridge

ORTHOPEDIC SURGEON

DR. B. A. GODVIN, 483 Beacon Street, Boston

LARYNGOLOGISTS

DR. EDMUND J. BUTLER, 1578 Massachusetts Avenue, Cambridge
DR. GEORGE POIRIER, 394 Marlboro Street, Boston

RONTGENOLOGIST

DR. FREDERICK W. O'BRIEN, 430 Marlboro Street, Boston

OBSTETRICIANS

DR. THOMAS J. CAHILL, 156 Line Street, Cambridge
DR. JEREMIAH J. BOYLE, 1431 Cambridge Street, Cambridge

CONSULTANTS

DR. FREDERICK L. GOOD, Consultant Obstetrician
DR. JOSEPH COURTNEY, Consultant Neurologist

DENTAL SURGEON

DR. J. B. ROCKETT, 520 Beacon Street, Boston

The Trustees are indebted to His Honor the Mayor, and the members of the City Council for many courtesies and hereby make acknowledgment of same.

The following is a brief statement of expenditure and receipts of the Hospital for the year:

Salaries	\$32,266.22	
Postage	10.00	
Advertising and posting	18.52	
Transportation of persons	27.45	
Cartage and freight	108.68	
Light and power	4,662.13	
Communication	564.91	
Cleaning	259.18	
Medical service	256.00	
Examinations	84.00	
Fees	100.76	
Boiler inspection	10.00	
General plant	1,056.98	
Office supplies	935.36	
Food	17,110.60	
Fuel	5,861.05	
Medical and surgical supplies	8,238.33	
Laundry supplies	859.99	
Agriculture	20.19	
General supplies	5,000.56	
Incidental expenses	160.22	
		\$77,611.13
Received from patients April 1, 1921, to March 31, 1922		23,001.98
Collected by Overseers of the Poor Department for care of patients at Hospital		2,537.20
Total receipts		\$25,539.18

STATISTICS FROM APRIL 1, 1921, TO MARCH 31, 1922

Patients treated in accident room	700
Daily average of patients in hospital	55
Largest number of patients in one day	75
Smallest number of patients in one day	42
Total admissions during year	1,897
Total surgical admissions	749
Oral admissions	590
Medical admissions	330
Obstetrical	334
Patients remaining in hospital April 1, 1921	58
Patients remaining in hospital April 1, 1922	69

ADMISSIONS AND THEIR CLASSIFICATIONS

Cardio-Vascular System:		Mitral insufficiency	1
Arterio-sclerosis	1	Pericaditis c effusion	1
Arterio-sclerosis with senile dementia	1	Angina pectoris	1
Arterio-sclerosis with myocarditis	4	Anemia	1
Myocarditis	5	Urinary System:	
Mitral regurgitation	2	Diabetes mellitis	1
Endocarditis with pulmonary oedema	4	Diabetic agngrege	1
		Chronic choleseystitis with stones	5

Stone in bladder	2	Femorral	2
Chronic nephritis with hyper- tension	2	Scrotal	2
Nephritis with uremia	6	Epigastric	1
Sub-acute nephritis	1	Post operative	2
		Strangulated	1
Genito Urinary System:		Ventral	1
Stricture of urethra	1	Incarcerated	1
Acute retention	4	Umbilical	1
Renal calculus c cystitis	3	Sliding	1
Orchitis	1	Hydrocele	
Benign tumor of testicle	1	Lypoma of groin	1
Prostratic obstruction	1	Abdominal adhesions	1
Hydrocele	4	Hemorrhoids	8
Circumcision	10	Ischio rectal abscess	2
Epididymitis	3	Condylomata anus	1
Peri urethral abscess	1		
Obstetrical:		Fistula in ano	5
Maternity	165	Constipation	2
Births	163	Cholecystitis	14
O. R. A. A.	2	Renal stone	2
Caesarian	2	Perinephritis	2
Elampeia	1	Pylitis	2
Still Births	3	Pylitis c renal calculus	1
Infants' Deaths	7	Gall bladder	9
Mother Deaths	1	Intestinal obstruction	4
Gynaecological:		Dysentery	1
Tubal pregnancy, ruptured	4	Alcoholic gastritis	5
Tubal pregnancy, not ruptured	5	Post operative adhesions	4
V. V. abscess	1	Acute gastro enteritis	3
Fibroid uterus	5	Duodenal ulcer	3
Ovarian cyst	3	Perforated gastric ulcer	2
Miscarriages	33	Gastro enteritis	12
Abortions	5	Perforated stomach	1
Septicaemia from self induced abortion	2	Amoebic dysentery	1
Pelvic abscess	1	Continued fever	2
Dysmenorrhea	6	Typhoid fever	5
Uterine hemorrhage	1	Hemorrhage from stomach	1
Salpingitis	10	Indigestion	1
Chronic endometritis	4	Cirrhosis of liver	1
Lacerated perinum	3		
Prolapse of uterus	1	Tuberculosis:	
Retroversion	5	Pulmonary tuberculosis	4
Cystocele-rectocele	5	T. B. meningitis	2
		T. B. spine	4
Intestines:		T. B. glands of neck	2
Appendectomies:		T. B. pleuritis	1
Acute	25	T. B. sinus of leg	1
Ruptured	22	Respiratory:	
Gangrenous	7	Lobar pneumonia	26
Sub-acute	12	Broncho pneumonia	12
Retro- cecal	5	Hypostatic pneumonia	1
Chronic	20	Pleuro pneumonia	1
General Peritonitis	3	Grippe	8
Hernias:		Coryza	1
Inguinal	2	Bronchitis	12
Double	5	Bronchial asthma	1
		Aneurism of thoracic aorta	1
		Empyema	7
		Pleurisy c effusion	4

Neoplasms:

Cancer of liver	1
Cancer of breast	12
Cancer of caecum	2
Cancer of sigmoid	3
Cancer of pancreas	3
Cancer of stomach	3
Cancer of neck	1
Cancer of jaw	1
Cancer of uterus	6
Cancer of rectum	2
Carcinomatosis	2
Epithelioma of lip	1

Abscesses:

Abscess of thigh	1
Septic leg	4
Septic foot	7
Septic finger	5
Septic hand	1
Infected elbow	1
Breast abscess	4
Auxiliary abscess	4
Impacted molar streptococcus infection	1
Cervical adenitis	10
Right inguinal abscess	1
Abscess of middle ear	3
Femoral adenitis	3
Abscess of abdomen	1
Abscess of buttock	2
Alveolar abscess	4
Multiple abscesses	8
Phlebitis of leg	2
General septicaemia	2
General low grade septicaemia	1
Septic prepatella bursitis	1

Neurosis:

Neurasthenia	1
Hysteria	2
Epilepsy	5
Syncope	4
Brain tumor	2
Convulsions, cause unknown	1
Migraine	1
Chorea	2
Manic depression	1
Cerebo spinal syphilis	1
Hemiplegia	1

Myxoedema

Cerebral hemorrhage	14
Tabes dorsalis	2
Senile dementia	2

Burns:

Face	2
Forearm	1
Body (multiple)	12

Poisoning:

Gas	1
Gasolene inhalation	1
Strychnine	2
Bichloride	1
Veronal	4
Denatured alcohol	7
Ptomaine	3

General Diseases:

Anterior poliomyelitis	1
Cerebo-spinal meningitis	2
Malnutrition	4
Rachitis	2
Marasmus	1
Acute articular rheumatism	9
Acute periostitis	4
Synovitis of knee	2
Prepatellar bursitis	3
Subdeltoid bursitis	1
Varicose veins	4
Eczema	1
Carbuncle of back	1

Alcoholism:

24

Bullet Wounds:

In brain	2
Of foot	3
Of leg	1
In cheek	1
In chest	1
Abdomen	4
Thigh	3

X-Ray for diagnosis

10

Hemorrhage of Newborn

4

Infant feeding

7

Hemorrhage of gums

2

Epistaxis

4

Removal of bone band of femur

4

Oral:

Tonsils and adenoids	600
Polypo-ethmoiditis	2
Chronic ethmoiditis	1
Chronic suppurative otitis media	1
Chr. ethmoid and frontal sinusitis	6
Acute mastoid	1
Otitis media	2
Chr. dacryo-cystitis	1
Deviated septum	8
Frontal sinusitis	4
Impacted molar and tonsils	2
Post-operative hemorrhage	3
Tonsilitis	12

Osteomyelitis:		Metatarsus	1
Of jaw	1	Clavicle	2
Of ulna	2	Separation of nasal epiphysis	2
Pelvis and femur	1	Separation of tibial epiphysis	1
Ileum	1	Separation of fibular epiphysis	1
Tibia	2		
Femur	1	Dislocations:	
Necrotic cartilage, sixth and seventh ribs	1	Elbow	1
		Hip	1
		Ankle	1
Fractures:		Shoulder	1
Spine	2	Humerus	1
Skull	12		
Humerus	3	Contusions and abrasions	53
Pelvis	1	Lacerated wounds	46
Radius and ulna	2	Sprains	1
Colles	5	Crushed phalanges	
Radius	2	Lac. clavicular joint	1
Femur	18	Concussion of brain	10
Tibia and fibula	1		
Astragalus	2	Amputations:	
Patella	3	Leg	1
Tibia	4	Right arm	2
Rib	8	Phalanges	2
Fibula	4		
Pott's	3		
Int. malleolus	1		

OPERATING ROOM RECORD

April, 1921-1922

Abdominal:		Retro-cecal	5
Exploratory	3	Chronic	20
Ectopic	1	General Peritonitis	3
Ectopic Interstitial	1	Hernias:	
Cholecystotomy	1	Inguinal	2
Cholecystectomy	9	Double	5
Gastro Enterostomy	2	Femorral	2
Hysterectomy, Total	3	Scrotal	2
Hysterectomy, Partial	5	Epigastric	1
Nephrectomy	3	Post operative	2
Nephrorrhaphy	1	Strangulated	1
Uterus suspension (Gilliam)	3	Ventral	1
Ventral suspension	6	Incarcerated	1
Ovariectomy	1	Umbilical	1
Salpingectomy	3	Sliding	1
Caesarian section	1	Hydrocele	
Ileosigmoidostomy	1	Incomplete Miscarriages, D. & C.	20
Diverticulum	1	Incomplete Abortion	11
Resection Ileum	1	Uterine Polyp	1
Rupture Spleen	1	Supra-pubic Prostatectomy	2
Vaginal Hysterectomies	1	Abscess:	
Per		Alveolar	2
Intestinal obstruction	4	Breast	10
Appendectomies:		Pulmonary	1
Acute	25	Psoas	1
Ruptured	22	Abdominal Wall	1
Gangrenous	7	Cervical	1
Sub-acute	12		

Chest Wall	1	Carcinoma antrum	1
Retro-Pharyngeal	1	Tonsilectomy and Adnectomy	554
Inguinal	3	Sinusitis	5
Gluteal	1	Deviated Septum	15
Vulvo Vaginal	1	Frontal Nose	1
Ischio-rectal	4	Frontal Sinus	2
Peritonsilar	1	Frontal Antrum	3
Varicocele	1	Acute Osteomyelitis	1
Circumcision	8	Bone bands removed	2
Skin Graft	1	Septic hand	3
Turbectomy	1	Septic finger	1
Anal Fissure	1	Gangrene foot, amputation	1
Bullet Wounds	1	Severed tendons	1
Bursa elbow	1	Pres. patellar bursa	1
Urethral stricture	1	Frontal Radius	2
Alveolar syst	2	Frontal Patella	1
Hemorrhoids	12	Frontal Colles	1
Urethral carbuncle	1	Frontal Femur	2
Undescended testicle	1	Frontal Humerus	1
Thoracotomy	2	Frontal Jaw	1
Resection of rib	3	T. B. Hip	1
Carcinoma breast	1	Dislocated Shoulder	1
Ligation ext. jugular	1	Bow legs	2
Mole on cheek	1	Mastoid	2
Lipoma Lip	1	Traumatic Amp. Humerus	
Weir	1	Septic Patella Bursa	2
Chronic Mashtes	1	Transfusions	2
Carcinoma Lip	2	Stab wounds of abdomen	2
Boil	1	Amputation of fingers	1
Varicose Veins	2	Amputation of leg	2
Carbuncle	1	Bullet wounds of jaw	1
Plastic of jaw	1	Bullet wounds of foot	1
Ankylosis of jaw	1	Bullet wounds of arm and foot	1
Carcinoma jaw	2		

DEATHS

Toxemia, first and second degree		Fractured femur	1
burns	1	Fractured pelvis, broncho	
Peri nephritic abscess	1	Lobar pneumonia	8
Cirrhosis of liver	1	Broncho pneumonia	5
Internal injuries	1	Chronic myocarditis, broncho	
Septicaemia, burns of body	1	Post Partum eclampsia	
Colitis	1	Ruptured appendix	
Ruptured appendix	1	Fractured jaw	
Ruptured gastric ulcer	1	Fractured femur	
Ruptured bladder, pulmonary		Fractured pelvis, broncho	
T. B.		Fractured skull	4
Valvular disease of heart	1	Peritonitis	4
Cardiac	1	T. B.	2
Prematurity	2	Following int. ols.	1
(Still born)	1	Fibroid uterus. hysterectomy	1
Pneumonia	19	Strangulated hernia	2
Lobar	8	Uremia	3
Broncho	5	Brain tumor	1
Chronic myocarditis, broncho	1	Potash poisoning	1
Post partum eclampsia	1	Intestinal obstructions	6
Ruptured appendix	1	Hemiplegia	1
Fractured jaw	1	Ruptured gall bladder	

Cerebral hemorrhage	4	Diabetic phlebitis	1
Myocarditis	5	Acute edema of lungs	1
Paralytic	1	Meningitis due to contusion of	
Nitral sternosis	1	brain	1
Endocarditis	3	Hemiplegia	1
Lympho sarcoma of kidney		Patent for amen ovale	1
Embolism	4	Bullet in brain	1
Coronary	1	Pst. diphthoritic complications	1
Pulmonary	1	Carcinoma	11
Empyema	1	Sigmoid	2
Post operative shock	1	Stomach	3
Cardio renal	1	Pancreas. gall stones	1
Gall bladder and cardiac	1	Caecum	2
Nephritis	5	Large intestines	1
Interstitial	3	Liver	1
Chronic	1	Carcinomatosis	1
Hemorrhagic of newborn	2		

Respectfully submitted,

CHARLES S. CAHILL, M. D., Chairman.

JOHN H. HURLEY

ISAAC McLEAN

FRANK F. ROGERS, JR.

JOHN J. QUINLAN

REPORT OF SEALER OF WEIGHTS AND MEASURES

Cambridge, Mass., April 10, 1922.

To the Honorable City Council of the City of Cambridge:

In compliance with the City Ordinance I respectfully submit a report for the department of Weight and Measures for the year ending March 31, 1922.

EXPENDED

Appropriation \$8,944 50

Salaries of Sealers:

Felix C. McBride	\$2,300 00	
Emery T. Morriss	1,750 00	
Hugh H. Healey	1,800 00	
Joseph O. Neil	1,750 00	
John J. Slattery	85 00	
	<hr/>	\$7,680 00

Equipment:

Harvard Automobile Company, care, repairs, supplies	\$498 88	
The Brattle Filling Station, supplies.	124 15	
Street Department, supplies	130 72	
W. H. Green, repairs	2 94	
Hood Tire Sales Company, supplies..	46 08	
Court Radiator Company, repairs	8 33	
Augustus C. Gillis, repairs	11 85	
E. Fryall, repairs	2 45	
Pill Bros., supplies	2 56	
Whitson Sales Company, supplies ..	2 94	
New England Telephone Co., service.	29 03	
Caustic-Claflin Company, books.....	36 26	
Hobbs & Warren, seals	72 58	
Atlantic Printing Company, books ..	32 34	
Chadwick & Carr Company, weights..	7 82	
George E. Marsters, Washington, D. C.	44 89	
Harry Katz Company, supplies	5 39	
Louis A. Stingel, hardware	26 95	
Boston Elevated Railway Co., tickets	30 00	
Hugh H. Healey, Worcester Conven.	9 50	
Felix C. McBride, car registration....	26 00	
Felix C. McBride, Pittsfield Conven...	15 50	
Recorder Publishing Co., advertising.	8 82	
Misses Littlefield, copying	4 90	
City Messenger, stamps	20 50	
W. V. L. E. Gurley, sealing clamps..	29 01	
Allen & Doane Company, dies	29 11	
	<hr/>	\$1,264 50

Total expenditures \$8,944 50

Revenue:

Fees for sealing	\$715 26		
Fees for adjusting	97 42		
		\$812 68	
Total amount expended			\$8,944 50
Total amount collected			812 68
			<hr/>
Net expense of department			\$8,131 82

TESTS MADE AT OFFICE FOR YEAR ENDING MARCH 31, 1922

Scales sealed	444		
Scales adjusted	85		
Scales condemned	3		
		<hr/>	532
Weights sealed	152		
Weights adjusted	20		
Weights condemned	1		
		<hr/>	173
Dry measures sealed	50		
Dry measures adjusted	0		
Dry measures condemned	8		
		<hr/>	58
Ice cream measures sealed	3,456		
Ice cream measures adjusted	258		
Ice cream measures condemned	85		
		<hr/>	3,799
Milk jars tested			846
			<hr/>
Total number of tests made at office			5,408

TESTS MADE OUTSIDE OF OFFICE FOR YEAR ENDING MARCH 31, 1922

Scales sealed	2,158		
Scales adjusted	412		
Scales condemned	68		
		<hr/>	2,638
Weights sealed	4,194		
Weights adjusted	530		
Weights condemned	35		
		<hr/>	4,759
Dry measures sealed	34		
Liquid measures sealed	804		
Liquid measures adjusted	42		
Liquid measures condemned	29		
		<hr/>	875
Oil pumps sealed	128		
Oil pumps adjusted	39		
Oil pumps condemned	6		
		<hr/>	173
			<hr/>
Yard measures sealed	136		
Yard measures condemned	12		
		<hr/>	148
Platform scales sealed, capacity 5,000 lbs.	107		
Platform scales sealed, less than 5,000 lbs.	628		
Slot weighing scales sealed	138		
25 lb. bags of coal tested	5,672		
Tests made in stores	8,679		

Tests made on street	1,789	
Berry boxes tested	3,948	
Total number of tests outside of office		21,109
Total number of tests at office		5,408
Total number of tests made		26,517

INVENTORY OF PROPERTY

Standards furnished by the Commonwealth

1 Balance, 5 grains to 100 lbs.	
1 Set (5) Avoirdupois Weights, 50-lb., 25-lb., 10-lb., 5-lb.	
1 Set (11) Avoirdupois Weights, 4-lb. to 1-16 oz.	
1 Kilogramme in case.	
1 Steel Meter in case.	
1 Brass Yard Measure.	
1 Set (5) Iron Dry Measures, 1-2 bushel to 1 quart.	
1 Set (6) Iron Liquid Measures, 1 gallon to 1 gill.	
1 Roll Top Desk.	
1 Black Walnut Desk.	
5 Chairs.	
1 Table.	
1 Clothes Press.	
1 Scale Cabinet.	
2 Benches.	
1 Sink.	
5 Mats.	
1 Set Revised Laws.	
1 Set Card Records, Oak Case	
1 Set Card Index, Oak Case.	
1 Hektograph.	
1 Letter Press.	
1 Blotter Bath.	
Miscellaneous Books	\$200 00
1 Express Wagon	100 00
1 Light Wagon	35 00
1 Pung	23 00
2 Harnesses	70 00
1 Plush Robe	6 00
1 Stable Blanket	2 00
1 Rain Blanket	2 00
1 Woolen Blanket	8 00
1 Halter	75
1 Hitch Weight	50
1 Balance Scale	88 69
1 Platform Scale, 1-2 to 2500 lbs.	75 00
1 Folding Platform Scale, 1-4 lb. to 600 lbs.	30 00
1 Balance, 1-10 milligramme to 500 grammes	35 00
1 Balance, 1-50 grain to 1-2 lb.....	15 00
1 Sealer's Balance, 1 grain to 100 lbs.	150 00
2 Leather Tool Bags	9 50
1 Sealer's Balance, 1 grain to 8 lbs.	50 00
2 Sealer's Trip Scales (not used)	5 00
1 Spring Scale, 1 lb. to 125 lbs.	1 00
2 Sets (19) Avoirdupois Weights, 4 lbs. to 1-8 oz.	10 00
1 Set (9) Troy Weights, 16 oz. to 1-8 oz.	3 00
1 Set (13) Metric Weights, 1 kilo to 1 gramme	5 00
5 Boxes Miscellaneous Weights (not standardized)	10 00
1 Set (3) Iron Weights, 25-lb., 10-lb., 5-lb.	5 00

40 50-lb. Weights	100 00
1 Arch	2 00
3 Glass Graduates	1 00
1 Set (21) Grain Weights, 1,000 gr. to 1-1000 gr.	13 50
1 Set (21) Metric Weights, 50 gram to 1-10	13 50
1 Set (5) Copper Dry Measures, 1-2 bushel to 1 quart	45 00
1 Set (3) Brass Dry Measurer, 1 quart to 1-2 pint	5 00
2 Sets (14) Copper Liquid Measures, 1 gallon to 1 gill	30 00
1 Yard Measure	1 50
1 Iron Truck	5 00
1 5-gallon Copper Measure	15 00
1 Steel Tape	10 00
1 Pair of Inside Calipers	3 50
1 Set Brands	3 00
1 Plumbers Furnace	5 00
Miscellaneous Tools	50 00
3 Record Books	15 00
2 Ford Automobiles	1,074 19
<hr/>	
Total	\$2,331 63

This department has caused two persons to be summoned to court for violations of laws relating to short weight and measure and convictions and fines amounting to \$70 have been paid.

Respectfully submitted,

FELIX C. McBRIDE,
Sealer of Weights and Measures.

FIFTY-FIFTH ANNUAL REPORT OF THE CITY ENGINEER 1921-1922

To the Honorable, the City Council:

The City Engineer hereby submits his annual report, being the fifty-fifth of the department, showing the operation and expenditures of the Engineering and Sewer Departments for the year ending April 1, 1922.

A brief summary of the work of the Engineering and Sewer Departments for the year is as follows:

FOR HIGHWAY DEPARTMENT

Number of surveys made	7
Number of street lines given	53
Number of grades given	69
Number of streets on which paving, curbs, etc., was measured	77
Number of assessments prepared	208
Number of plans and profiles prepared	16
Number of cars of Street Department material measured	0

FOR SEWER DEPARTMENT

Number of surveys made	13
Number of lines given	135
Number of grades given	155
Number of sewers measured	13
Number of plans and profiles prepared	14

FOR WATER DEPARTMENT

Number of lines given	11
Number of surveys made	5
Number of plans and profiles made	10
Number of grades given	3

FOR LAW DEPARTMENT

Number of surveys made	43
Number of photographic negatives	68

FOR PARK DEPARTMENT

Number of surveys made	3
Number of lines given	14
Number of grades given	19

FOR CEMETERY DEPARTMENT

Number of surveys made	7
------------------------------	---

MISCELLANEOUS WORK

Number of circuit bench levels	3
Number of houses measured	250
Number of plans and profiles prepared, tracings, etc.	53
Number of surveys made	3
Number of lines given	72
Number of grades given	88
Number of photographic negatives	18

There are on file in this office 13,669 plans.

FINANCIAL

ENGINEERING DEPARTMENT

Salaries

Appropriation	\$13,195 42
Expended	12,968 00
<hr/>	
Balance	\$227 42

OTHER EXPENSES

Appropriation	\$1,028 58
Expended	1,028 58
<hr/>	
Balance	0

In addition to and including the above amount charged to salaries to assistants, there has been expended and charged to departments as follows:

To Assessors' Plans	\$100 00
To Sewer Department	1,912 00
To Water Works Department	
To Salary of City Engineer	3,500 00
To Salaries of Assistants	9,468 00
<hr/>	
Total	\$14,980 00

CLASSIFICATION OF SALARIES OF ASSISTANTS

Accidents—Surveys, plans and court attendance for Law Department	\$221 91
Accounts	1,322 83
Assessors' Plans—Surveys, measurements and work on Block Plans for Assessors' Department	829 59
Bridges—Surveys, plans, examinations and estimates	147 17
Cemetery—Surveys and plans setting out lots at Cambridge Cemetery	335 28
General Surveys and Levels—Surveys and work on section and Cty plans and bench levelling	12 33
Highways—Surveys, levels, plans, estimates, measurements and assessments for Highway Department; also lines and grades for private parties	2,809 20
Location Plans	169 50
Miscellaneous—Unclassified work for committees and departments, vacations and sickness	1,544 31
Parks—Surveys, lines, grades, plans and estimates for Park Department	115 05

Sewers—Lines, grades, plans, estimates, accounts, measurements and assessments for Sewer Department	3,451 99
Sidewalks—Estimates, measurements, titles and assessments for Highway Department	143 07
Water Works—Surveys, lines, grades, plans and estimates for Water Works Department	1,066 77
Total	<hr/> \$12,169 00

BRIDGES

The three bridges over the Broad Canal at First Street, Third Street and Sixth Street, still remain in a very weak and unsafe condition. Some repairs were made during the past year but nothing short of a complete reconstruction will be of any permanent relief to the present condition.

The remaining bridges in the City are in fairly good condition and will require only the ordinary repairs, replanking and painting.

PAVEMENT STATISTICS

Statistics of pavements laid in the City to date are as follows:

STATISTICS OF PAVEMENTS LAID IN THE CITY TO APRIL 1, 1922, ARE AS FOLLOWS:

Kind	Length in Miles			Area in Square Yards		
	Laid in 1921	Removed in 1921	To Date 3/31/22	Laid in 1921	Removed in 1921	To Date 3/31/22
Granite Block	None	None	12.053	None	None	308,374
Vitrified Brick	None	None	2.929	None	None	57,541
Wood Block	None	None	3.685	None	None	86,617
Bitulithic	2.004	None	16.189	39,473	None	352,786
Tar Macadam	4.109	0.216	29.666	57,153	5,066	469,532
Macadam	0.111	5.954	42.007	1,421	93,888	453,187
Totals	6.224	6.170	106.529	98,047	98,954	1,728,037

In addition to the above:

Harvard Bridge—Wood Block	0.185 miles	5,512 sq. yds.
Cambridge Bridge—Granite Block	0.161 "	4,044 "
Charles River Dam—Granite Block	0.106 "	5,469 "
Anderson Bridge—Wood Block	0.041 "	978 "

STREETS LAID OUT AND ACCEPTED APRIL 1, 1921, TO APRIL 1, 1922

LOCATION OF STREET					PLAN		
Street	From	To	Length in Feet	Width in Feet	Date of Acceptance	Made by	Date
Norman	Belmont St.	Northerly -	270	40	June 4, 1921	Bay State Surveying Co.	March 15, 1921
Sacramento Pl.	Sacramento St.	Northerly	246	24	June 8, 1921	G. F. Hooker	March 17, 1921
Lincoln Lane	Fa'weather St.	Westerly	265	25	Nov. 17, 1921	Kilham & Hopkins	April 5, 1921
Phillips Place	Berkeley St.	Mason St.	90 and 334	35-30	March 31, 1922	Bay State Surveying Co.	Dec. 24, 1921
Notre Dame Av	Sargent St.	Middlesex St.	306	40	March 31, 1922	City Engineer	March 14, 1922
Length of accepted streets March 31, 1921					108.674 miles		
Accepted in 1921					0.296 "		
Length of accepted streets March 31, 1922					108.970 "		
Length of unaccepted streets March 31, 1922					16.380 "		
Total mileage open for travel.....					125.350 "		

GENERAL SEWER CONSTRUCTION

The total length of sewer conduit constructed during the year was 1.346 miles, making a total mileage in the city 165.344 miles. The length of streets newly sewered during the year has been .246 miles, making the total mileage of streets sewered with one or more conduits, 122.780 miles.

The total cost of sewer construction to date has been \$2,815,-419.58.

Sewers have been built upon streets as shown by the annexed schedule.

CATCH BASINS

Catch basins with wooden covers	250
Catch basins with sidewalk flagging	1068
Catch basins with cast iron "D" frames	958
Catch basins with miscellaneous covers	65
<hr/>	
Total number in the city	2,341

Twenty-three new catch basins have been built during the year at a total cost of \$2,943.47.

Seventy-two catch basins have been repaired during the year at a cost of \$1,437.44. 2,186.8 cubic yards of material have been removed from 1.253 catch basins during the year at a cost of \$6,975.11.

Sixteen persons have been licensed as drain layers during the year.

Permits have been granted for sewer repairs or construction as follows:

For repairs	57
For connection to sanitary sewers	36
For connection to combined sewers	59
For connection to storm sewers	7
<hr/>	
	159

A total number of 102 permits for connections and 57 for repairs.

CLASSIFIED SCHEDULE OF SEWERS AS BUILT TO APRIL 1, 1922

	Miles
Vitrified and cement pipe	107.283
Brick	48.751
Miscellaneous materials	3.313
Wood	2.831
Cement Concrete	2.862
Iron Pipe .....	.314
<hr/>	
Total length of sewer conduit constructed to date	165.344

Sewers Constructed Between April 1, 1921, and April 1, 1922

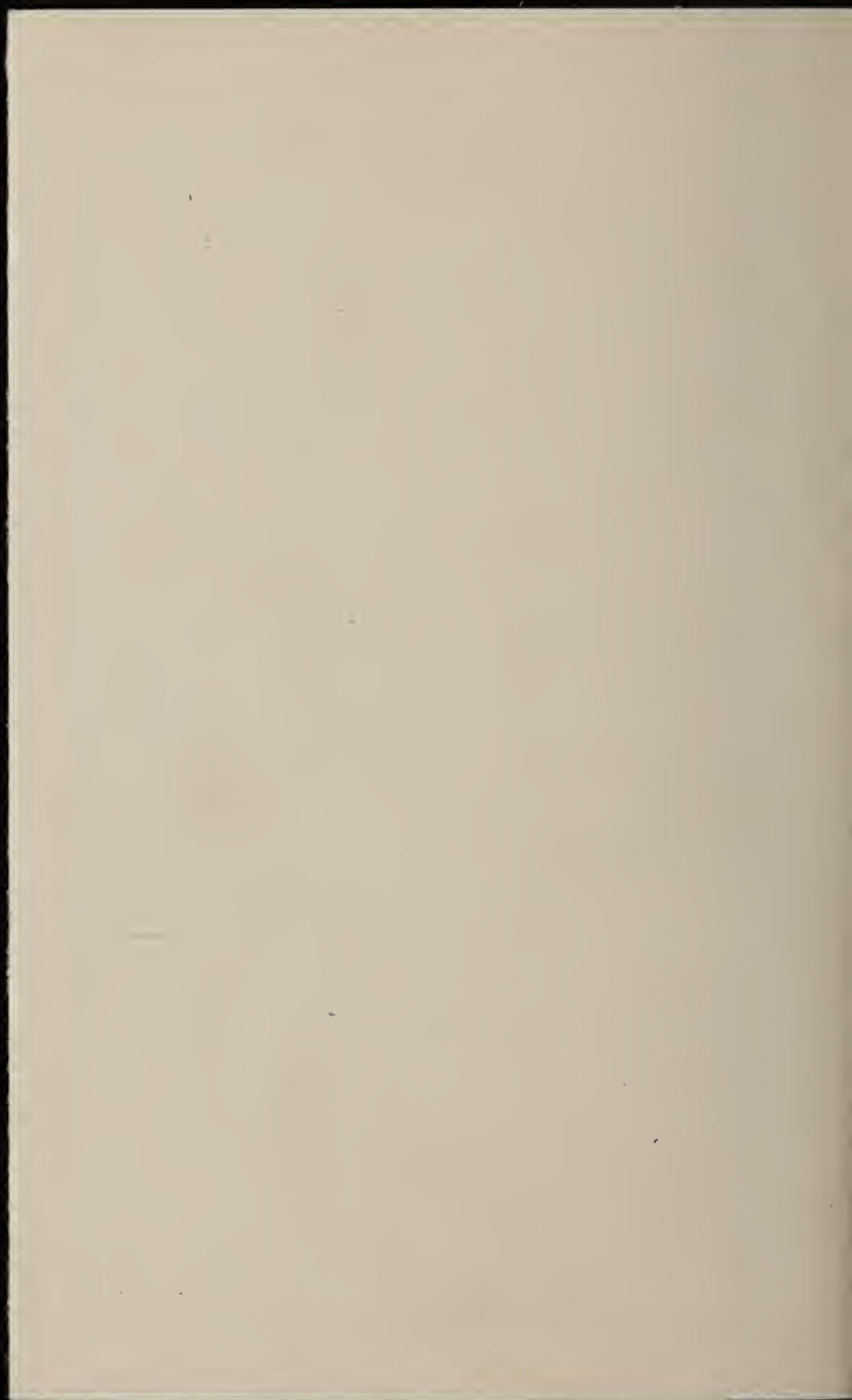
Street	From	To	Material	Size in Inches			Number of			Average Depth in Feet	Length in Feet			Cost		Time when work was	
				Combined	Storm	Sanitary	Man-holes	Lamp-holes	Inlets		Combined	Storm	Sanitary	Per Foot	Total	Begun	Finished
†Blakeslee St.	Huron Ave.	S'y	Akron Pipe	.....	10	8	2	2	66	9.3	.....	426.7	471.1	13.43	9494.80	Dec. 8, 1921	Mar. 13, 1922
Blacknall St.	End as built	near Putnam Av.	" "	.....	10	8	.....	2	24	9.7	.....	145.8	147.8	9.85	1455.31	July 25, 1921	Aug. 11, 1921
*Ellsworth Ave.	Cambridge St.	Broadway	" "	.....	.....	8	3	1	66	10.5	.....	.....	901.6	8.46	7631.42	Apr. 12, 1921	June 19, 1921
§Huron Ave.	Reservoir St.	Blakeslee St.	" "	.....	10	.....	.....	.....	6	8.7	.....	235.7	.....	.....	.....	.....	.....
			Akron Pipe	.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Lexington Ave.	Brattle St.	S. of Huron Ave.	& Concrete	.....	18 x 20	8	3	.....	164	11.5	.....	1064.3	1051.4	17.80	18946.75	Mar. 7, 1921	Aug. 20, 1921
Mass. Ave.	Cogswell Ave.	W'y	Akron Pipe	.....	.....	8	1	1	9	10.0	.....	.....	368.9	7.33	2704.46	Oct. 14, 1921	Nov. 7, 1921
Mt. Auburn St.	Eliot Sq.	E'y	" "	.....	10	8	1	.....	28	10.2	.....	219.8	219.8	11.33	2490.45	Nov. 8, 1921	Dec. 6, 1921
Munroe St.	Sixth St.	Fifth St.	" "	.....	12-10	8	1	.....	38	11.5	.....	369.5	369.5	12.62	4661.61	June 15, 1921	July 26, 1921
Pearl St.	Hamilton St.	Lake St.	Akron Pipe	.....	26 x 40	8-10	3	.....	37	11.9	.....	494.9	484.0	26.12	12926.54	Oct. 3, 1921	Dec. 24, 1921
			& Concrete	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*Pemberton St.	Fairfield St.	N'y	Akron Pipe	.....	12-10	.....	1	.....	37	8.4	.....	497.3	.....	9.34	4645.54	Dec. 20, 1921	Feb. 8, 1922
*Suffolk St.	Columbia St.	Norfolk St.	" "	.....	12	8	1	2	91	9.2	.....	476.4	477.9	12.23	5845.84	Aug. 15, 1921	Oct. 8, 1921
†Willow St.	N. of Lincoln St.	S. of Lincoln St.	" "	.....	10	8	2	.....	17	10.7	.....	230.2	243.1	19.25	4680.59	Mar. 7, 1921	Apr. 13, 1921
*Worcester St.	Columbia St.	Norfolk St.	" "	.....	12-10	8	2	2	97	9.6	.....	484.0	481.0	11.98	5799.07	Aug. 29, 1921	Oct. 25, 1921

*Old sewer removed.

†Old sewer removed and relaid over new Sanitary Sewer.

‡Cost includes cost of Huron Ave.

§Cost included in cost of Blakeslee St.



MAINTENANCE

Appropriation	\$31,051 66
Expended	30,938 42
Balance	\$113 24

Expended

Catch basin repairs	\$1,437 44
Catch basin cleaning	6,975 11
Cleaning and repairing gates	2,748 84
Cleaning sumps	397 75
Cleaning and flushing sewers	1,967 64
Manhole repairs	406 37
General expense	12,759 64
Sewer repairs	2,773 72
Garage and Yard expense	699 90
Office	772 01
Total expenditure	\$30,938 42

SEWER CONSTRUCTION ACCOUNT

Appropriation	\$100,232 15
Expended	93,371 82
Balance	\$6,860 33

Expended

New catch basins	\$4,826 11
General expense	6,941 09
Willow Street Sewer	1,972 44
Lexington Avenue Sewer	16,032 45
Union Street Sewer	31 00
Fayerweather Street and Lincoln Lane Sewer	21 25
Ellsworth Avenue Sewer	7,631 42
Munroe Street Sewer	4,661 61
Pilgrim Street Sewer	1,490 14
Blacknall Street Sewer	1,455 31
Otis Street Sewer	507 76
Suffolk Street Sewer	5,845 84
Worcester Street Sewer	5,799 07
Pearl Street Sewer	12,926 54
Massachusetts Avenue Sewer	2,704 46
Mt. Auburn Street Sewer	2,490 45
Erie Street Sewer	2,029 86
Blakeslee Street Sewer	9,494 80
Pemberton Street Sewer	4,636 29
Windsor Street Sewer	2,673 93
Total expenditure for 1921-1922	\$93,371 82

Revenue

Sewer Assessments	\$2,931 56
Sundry receipts (Maintenance)	13 62
Total	\$2,945 18

METROPOLITAN SEWER TAX

Appropriation		\$159,936 17
Sinking Fund Requirements	\$33,145 62	
Interest Account	53,638 87	
Maintenance and Operation	67,694 08	
Maturing Serial Bonds	5,457 60	
	<hr/>	
		\$159,936 17

MOSQUITO SUPPRESSION

Work was begun April 20, 1921, but owing to the small appropriation allowed, it was necessary to discontinue this work August 13, 1921.

The season as a whole was wet and more than usually favorable for mosquito breeding. While the usual lines were followed in the oiling of catch basins, pools, ponds, etc., special attention was given to the breeding places at Fresh Pond Meadows.

Large areas were there covered with shallow water which promoted a rank growth of hedge and grass making ideal places for their breeding. The Penn Metal Company and the Prest-O-Lite Company, each owning a large tract of this land, were induced to co-operate in the work by themselves oiling their own lands. The Boston and Maine Railroad Company also owns or controls some very large areas of this land. By agreement the city oiled these lands of the Railroad Company, they paying the city the cost of the oil and labor. The Railroad Company also constructed a considerable length of sewer, at its own expense, with a view to draining the low, wet lands held by them, all tending to reduce the breeding of the mosquito in this region.

The annual appropriation for the year 1921 was	\$2 000 00
Additional appropriation	784 82
	<hr/>
Total	\$2,784 82

EXPENDED

For inspector and labor	\$1,842 86
For hire of auto, team and repairs	528 00
For oil	376 81
For transportation	20 00
Miscellaneous	17 15
	<hr/>
Total	\$2,784 82

WATER WORKS

Water wasted over Stony Brook Dam as follows:

	Gallons
January, 1921	468,000,000
February, 1921	95,750,000
March, 1921	995,550,000
April, 1921	307,050,000
May, 1921	866,950,000
June, 1921	900,000
July, 1921	990,500,000
August, 1921	217,500,000
September, 1921	
October, 1921	
November, 1921	
December, 1921	

The total passing the dam during the year 1921 was..... 3,942,200,000

Table Showing Comparison by Months of the Precipitation at Stony Brook Basin, Hobbs Brook Basin, Baker's Bridge, and Cambridge City Hall; Also the Number of Days in Which Rain Fell at City Hall in 1921.

Point of Observation	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Stony Brook Basin.	2.58	3.51	2.36	3.33	2.32	2.63	8 76	1.45	1.59	1.45	7.71	2.52	40.21
Hobbs Brook Basin.	2.55	4.67	2.15	6.04	2.54	3 83	10.92	1.48	2.25	1.05	6.88	2.31	46.67
Baker's Bridge.....	2.24	3 58	1.62	3.73	4.67	3.67	9 60	2.06	1.67	1.36	7.73	1.81	43.74
Cuty Hall.....	2.39	3.15	1.89	4.87	4 23	4.19	11.85	1.27	1.03	0.78	7.53	2.79	45.97
No. of days in which rain fell.....	7	7	9	9	6	4	8	5	6	5	17	8	91

SUMMARY OF SEWERAGE SATISTICS

(In form recommended by Sanitary Section of Boston Society
Civil Engineers.)

For the Year ending April 1, 1922.

CAMBRIDGE, MASSACHUSETTS

General

Population by census of 1920	111,444
	Sq. Miles
Total area of City	6.535
Total area of City served by sewerage system.....about	6.
Collection system for sewage only	41.148
Collection system for sewage and surface water	111.185
Collection system for surface water only	13.011
Method of disposal, discharge into ocean by the Metropolitan (State) Sewer.	

COLLECTION

Mains (everything but house and catch basin connections).

	For sewage only	For sewage and surface water	For surface water only
Lineal feet extended during the year	5216.1	0	1892.4
Method of flushing	By use of hydrant hose		
Method of cleaning	By scraping and flushing		

HOUSE CONNECTIONS

By whom made	By property owners
Sizes	6-inch diameter
Number made during year	102

CATCH BASINS

Number of new ones built	23
Number cleaned	1,253
Average amount of material removed per catch basin (cu. ft.)	47.12
Cost of removing material per cubic yard	\$3.19
Cost of removing material per catch basin per year	\$5.57
Number of new Manholes built	20.
Number of new Lampholes built	10.

DISCHARGE OF SEWAGE

Estimate population using sewer system	111,000
Number of buildings connected (estimated at)	

FINANCIAL

CONSTRUCTION

RECEIPTS		EXPENDITURES	
Bonds issued	\$97,286 97	Collection works and	
Transferred from Separ-		Mains	\$93,371 82
ate System	13 62		
Assessments not available		Balance	\$6,860 33
for expenditures	2,931 56		
Appropriation	\$100,232 15		

MAINTENANCE AND OPERATION

RECEIPTS		EXPENDITURES	
Appropriation	\$31,051 66	Administration	\$14,231 55
Sundries		Repairs	4,617 53
		Cleaning sewers	3,146 59
		Cleaning catch basins ..	6,975 11
		Flushing sewers	1,967 64
		Balance	113 24
<hr/>		<hr/>	
Total	\$31,051 66	Total	\$31,051 66
		Interest on bonds	
		Sinking Fund	

GENERAL

Total cost of collecting mains and total cost of work to date....\$2,815,419 58
Bonded at date
Value of Sinking Fund at date
Average rate of interest on bonds 3½ and 5 per cent.
Proportion of cost of system assessed abutters estimated at ¾.
Yearly assessment for maintenance, nothing.
Method of assessing abutters and rate of assessment, based on frontage
and area of lot within 100 feet of street.

THE ENGINEERING DEPARTMENT IS ORGANIZED AS FOLLOWS:

City Engineer
LEWIS M. HASTINGS

Principal Assistant
GEORGE DAVIS

Assistants
HENRY, T. BURRAGE, Office Assistant and Draughtsman
G. FRANK HOOKER, in charge of Street Work
EDGAR W. DAVIS, in charge of Sewer Work
HAROLD J. McDONALD, Office Assistant and Draughtsman

Transitman
RAY L. COOLIDGE

Rodman
EDWARD SMITH

Clerk and Stenographer
GENEVIEVE G. HANNON

Superintendent of Sewers
THOMAS P. O'NEILL

Respectfully submitted,

L. M. HASTINGS,
City Engineer.

ANNUAL REPORT OF THE CHIEF OF THE FIRE DEPARTMENT

To His Honor, the Mayor and City Council:

Gentlemen:—In compliance with the provisions of Section 6 of the City Ordinance concerning the Fire Department and Fires, I respectfully submit my annual report of the Fire Department for the year ending March 31, 1922, containing a record of fires with the cause thereof so far as could be ascertained, a statement of damage, insurance and insurance paid, a roll of members and the duty performed, also the condition of the apparatus, buildings and other property controlled by this department, with recommendations in reference thereto which will in my judgment tend to increase the efficiency of the department.

The total number of alarms of fire for the year from all causes, was:

Bell Alarms	351
Still Alarms	409
Total	<u>760</u>

The total losses, together with the insurance and the insurance paid, were as follows:

	Loss	Insurance	Insurance Paid
Buildings	\$252,424.53	\$2,589,672.00	\$218,898.03
Contents	257,823.18	3,232,099.70	245,174.32
Totals	<u>\$510,247.71</u>	<u>\$5,821,781.70</u>	<u>\$464,072.35</u>

GENERAL EXPENSES

Salaries	General Expense
\$312,019.01	\$45,645.27

ORGANIZATION

Eight (8) engine companies; four (4) ladder companies; one (1) combination hose and chemical company, and one (1) straight chemical company.

MANUAL FORCE

Consists of one hundred and sixty-seven (167) permanent members.

APPARATUS

The apparatus consists of one (1) 1000 gallon triple combination auto pumping engine; three (3) 750 gallon triple combination auto pumping engines; two (2) 750 gallon combination auto pumping engines; two (2) tractor drawn steam fire engines; three (3) aerial ladder trucks; one (1) city service truck; five (5) combination hose and chemical wagons and one (1) three tank chemical engine, all motor driven; two automobiles, one for the Chief and one for the Deputy Chiefs.

IN RESERVE

Two (2) steam fire engines; one (1) hose wagon; one (1) combination hose and chemical wagon; three (3) city service ladder trucks; one (1) aerial ladder truck, all horse drawn. Also one Chief's auto.

APPARATUS PURCHASED THIS YEAR

During the year there was purchased, two (2) 750 gallon combination hose and chemical wagons; one (1) 75 ft. aerial and one (1) 85 ft. aerial ladder trucks, to take the place of horse drawn apparatus, so that the department is now totally motorized.

HOSE

The total amount of serviceable two and one-half inch cotton rubber lined hose now in use by the several companies is 19,450 feet, and 2,500 feet of three-quarter inch rubber chemical hose.

HOUSES

The buildings now used are in fairly good condition, but I would recommend that action be taken immediately to put the buildings in such condition so that they will conform to the laws governing such places where automobiles are kept.

I would again renew my recommendation that a new building be built to house the apparatus now located in the Brattle Square Building, as I do not consider the building fit or safe for the apparatus now housed in this building.

I also renew my recommendation that a suitable building be built on the city land on Portland Street adjoining the ladder

House, the same to be used as a repair shop, so that the work of repairing the apparatus can be properly done. The present repair shop, in Engine No. 5 House, Inman Square, is altogether too small to carry on the work required.

IN MEMORIAM

James T. McCabe

Born July 20, 1859. Appointed a call member December 11, 1888; promoted a permanent member May 31, 1892, and assigned to Chemical No. 1; promoted to lieutenant January 1, 1905, and assigned to Ladder No. 2; transferred to Chemical No. 1 December 9, 1908; promoted to captain April 1, 1911.

Died October 7, 1921

CONCLUSION

To His Honor, the Mayor and City Council, I desire to tender my sincere thanks for their hearty co-operation during the past year.

I also desire to thank the Officers and Members of the Department for the prompt and efficient manner in which they have performed their duties, which are of exceptionally hazardous calling.

I also wish to thank the Fire Alarm and Police Departments, also all others who either by deed or expressed thought have shown an appreciation of the work of the Department.

Respectfully submitted,

JAMES M. CASEY,

Chief of Fire Department.

FIRE DEPARTMENT ROSTER

Badge	Name	Rank	Residence
	James M. Casey	Chief	353 Huron Ave.
	Cutler L. Vose	Deputy Chief ...	452 Broadway
	Albert R. Wait	Deputy Chief ...	114 Hampshire St.

CHIEF'S CLERK

Badge	Name	Rank	Residence
100	James J. Clifford	Lieutenant	2 Ellsworth Ave.
		Chief's Clerk	

SUPERINTENDENT OF REPAIRS

Badge	Name	Rank	Residence
18	William J. Reilly	Supt. of Repairs.	40 Maple Ave.
		Lieutenant	
	Joseph P. Flynn	Mechanician	71 Inman St.
		Civilian Employee	

CHIEF'S DRIVERS

Badge	Name	Rank	Residence
48	George A. Regan	Chief's Chauffeur	84 Pemberton St.
	Arthur J. Tremblay	Chief's Chauffeur	

ENGINE CO. NO. 1

A Combination Pump and Hose Auto Engine, with a capacity of 750 gallons per minute, with all necessary equipment. Put in service November, 1921. Accompanied by a Combination Hose and Chemical Auto. Put in service November, 1921. Both built by the American LaFrance Fire Engine Company.

Badge	Name	Rank	Residence
5	Daniel E. Shea	Captain	65 Putnam Ave.
129	Timothy F. McCarthy	Lieutenant	1269 Cambridge St.
63	Thomas H. McCourt	Engineer	59 Rindge Ave.
4	Hiram W. Hooker	Asst. Engineman.	51 Fayette St.
118	William H. C. Acford	Private	14 Carlisle St.
75	Leo A. Diehl	Private	9 Gardner St.
121	John J. Flavin	Private	108 Mt. Auburn St.
47	Francis Jefferson	Private	136 Mt. Auburn St.
140	George A. Ryan	Private	79 Putnam Ave.
90	Henry A. Cutting	Private	1 Pine St.
160	William T. Anderson	Private	202 Banks St.
78	Maurice J. Murphy	Private	55 Cedar St.

ENGINE CO. NO. 2

First size Amoskeag engine, tractor drawn; capacity 900 gallons a minute; has been in service since 1891. New boiler, 1908. Combination hose and chemical auto. Built by the American LaFrance Fire Engine Co. Put in service October, 1919. Built by the American LaFrance Fire Engine Company.

Badge	Name	Rank	Residence
62	John H. Dardis	Captain	81 Prospect St.
77	Dennis R. Sullivan	Lieutenant	210 Columbia St.
2	Charles A. Cairns	Engineer	384 Mass. Ave.
29	Patrick J. Hayes	Private	24 Columbia St.
84	Thomas H. Anderson	Private	15 Watson St.
15	Thomas L. Galvin	Private	72 Elm St.
93	John J. Murphy, 2d	Private	195 River St.
22	George H. Friel	Private	31 Plymouth St.
101	Edward J. Fitzgerald	Private	327 Windsor St.
144	John J. Lucey	Private	305 Washington St.
127	William A. Witham	Private	57 Tremont St.
11	Daniel J. O'Connell.....	Private	11 Lincoln St.

ENGINE CO. NO. 3

Second size Amoskeag engine, tractor drawn; capacity 700 gallons per minute; has been in service since 1872. New boiler, 1918. Combination hose and chemical auto. Built by the American LaFrance Fire Engine Co. Put in service October, 1919.

Badge	Name	Rank	Residence
27	Frank M. McGrath	Captain	146 Spring St.
57	Francis J. Murray	Lieutenant	4 Warwick Park
12	William L. McCusker	Engineer	40 Williams St.
19	Cornelius O'Connell	Asst. Engineman.	79 Spring St.
115	John J. O'Callahan	Private	36 Tremont St.
120	Daniel J. Holleran	Private	186 Hampshire St.
3	Edward F. Looney	Private	15 Marney St.
35	Charles F. O'Connor	Private	13 Palermo St.
82	William F. Bulger	Private	11 Palermo St.
22	Francis H. Belcher	Private	38 Third St.
142	John F. Stanton	Private	401 Cambridge St.
141	Francis J. Sweeney	Private	74 Otis St.

ENGINE CO. NO. 4

A Triple Combination Pump, Hose and Chemical, with a capacity of 750 allgons per minute, with all necessary equipment. Put in service July, 1917. Built by the American LaFrance Fire Engine Co.

Badge	Name	Rank	Residence
125	Arthur L. Marshall	Captain	51 Museum St.
44	Redmond M. Burke	Lieutenant	22 Hadley St.
42	John T. Henderson	Engineer	2 Orchard St.
33	William J. Connors	Private	2029 Mass. Ave.
25	Walter L. Allen	Private	2 Cambridge Ter.
10	William J. Coyne	Private	220 Elm St.
122	Thomas J. King	Private	14 Fayette St.
143	Thomas J. Lovett	Private	11 Traymore St.
73	John J. Ford	Private	130 Elm Street
164	James H. Glennon	Priyate	196 Sidney St.

ENGINE CO. NO. 5

A Triple Combination Pump, Hose and Chemical, with a capacity of 1000 gallons per minute, with all necessary equipment. Put in service February, 1918. Built by the American LaFrance Fire Engine Co.

Badge	Name	Rank	Residence
66	Herman E. Gutheim	Captain	29 Bigelow St.
119	Walter E. Chapman	Lieutenant	13 Regent St.
32	Hugh J. Powers	Engineer	274 Putnam Ave.
43	William J. Beck	Private	41 Granville St.
61	William G. Johnson	Private	14 Springfield St.
59	George W. Stevens	Private	135 Antrim St.
105	Jeremiah F. Hayes	Private	17 Marney St.
116	Frank A. Casey	Private	17 Marney St.
157	William J. Curry	Private	168 Tremont St.
23	Edward E. Gaughan	Private	26 Tremont St.
149	Timothy F. White	Private	2 Highland Park
112	John J. Callan	Private	63 Allston St.

ENGINE CO. NO. 6

A Triple Combination Pump, Hose and Chemical, with a capacity of 750 gallons per minute, and with all necessary equipment. Put in service December, 1918. Built by the American LaFrance Fire Engine Co.

Badge	Name	Rank	Residence
17	James H. Furfey	Captain	99 Magazine St.
17	James H. McCabe	Lieutenant	247 Hampshire St.
69	William F. Campbell	Private	13 Decatur St.
70	Thomas F. Mullen	Private	10 Laurel St.
71	James P. Welsh	Private	48 Norfolk St.
103	Joseph J. Schuler	Private	107 Rindge Ave.
146	Henry E. Kilfoyle	Private	1 Rockingham St.
21	John J. Murphy	Private	176 Pearl St.
126	John J. Dineen	Private	175 River St.
54	Joseph H. Caldwell	Private	175 River St.
145	George P. McCusker	Private	11A Howard St.
52	James B. Burrell	Private	35 Myrtle Ave.

ENGINE CO. NO. 7

A Combination Pump and Hose Auto Engine, with a capacity of 750 gallons per minute, with all necessary equipment. Put in service November, 1921. Accompanied by a Combination Hose and Chemical Auto. Put in service July, 1921. Both built by the American LaFrance Fire Engine Company.

Badge	Name	Rank	Residence
26	Thomas F. O'Connell	Captain	33 Chatham St.
1	William J. Atkinson	Lieutenant	5 Cutler Ave.
83	Joseph S. Hayes	Engineer	81 Hampshire St.
24	J. A. S. Drinkwater	Asst. Engineman.	1 Coolidge Place
136	Otis D. Powers	Private	8 Rockingham St.
36	Frank Foster	Private	94 Thorndike St.
85	James E. Cunha	Private	9 Gardner St.
91	Timothy J. Murphy	Private	19 Marcella St.
34	Charles H. Leddy	Private	71 Dana St.
137	Joseph E. McKenna	Private	395 Columbia St.
138	Thomas F. Sullivan	Private	37 Meacham Road
7	Robert J. Buchanan	Private	20 Griggs St.

ENGINE CO. NO. 8

A Triple Combination Pump, Hose and Chemical, with a capacity of 750 gallons per minute, and with all necessary equipment. Put in service March, 1919. Built by the American LaFrance Fire Engine Co.

Badge	Name	Rank	Residence
88	William J. Anderson	Captain	100 Hammond St.
77	Dennis R. Sullivan	Lieutenant	210 Columbia St.
123	Francis V. Doyle	Private	33 Oliver St.
49	George E. Lorigan	Private	240 Huron Ave.
86	Thomas L. Wilkshire	Private	124 Garden St.
13	William V. Jefferson	Private	244 Concord Ave.
37	Charles L. Carrier	Private	18 Locke St.
60	John P. Wallace	Private	609 Mt. Auburn St.
147	Francis A. Lyshorn	Private	286 Concord Ave.
28	Francis J. Campbell	Private	7 Granville Rd.

LADDER CO. NO. 1

A 75 foot Aerial Ladder Truck, motor driven; equipped with 275 feet of ladders, also equipped with jumping net, life line, etc. Put in service January, 1919. Built by the American LaFrance Fire Engine Co.

Badge	Name	Rank	Residence
16	John D. Shea	Captain	15 Athens St.
65	Warren A. Dale	Lieutenant	26 Chilton St.
20	John J. Balfe	Private	377 Norfolk St.
56	Thomas A. Haley	Private	14 Woodbridge St.
38	Charles N. Anderson	Private	207 Hamilton St.
68	Emerill B. Beucler	Private	1 Columbia Ter.
96	Eugene L. O'Keefe	Private	19 Rindge Ave.
67	Daniel A. Walsh	Private	206 Rindge Ave.
31	James W. Breslin	Private	17 Clay St.
159	Leo G. Cook	Private	426 Huron Ave.
150	Thomas W. Lane	Private	76 Bolton St.
148	Daniel P. Moynihan	Private	301 Prospect St.

LADDER CO. NO. 2

A 75 foot Aerial Ladder Truck, motor driven, with all necessary equipment. Put in service December, 1921. Built by the American LaFrance Fire Engine Company.

Badge	Name	Rank	Residence
53	George L. Church	Captain	1293 Cambridge St.
102	Charles J. McElroy	Lieutenant	67 Fifth St.
50	Joseph A. McDonald	Private	65 Ellery St.
107	Michael Mullen	Private	5 Carlisle St.
128	William J. L. Sullivan	Private	819 Cambridge St.
124	Joseph King	Private	76 Thorndike St.
106	Thomas J. Lane	Private	134 Otis St.
51	Michael R. Hayes	Private	81 Webster Ave.
45	John J. Kelleher	Private	43 Fifth St.
46	Joseph Silveira	Private	237 Portland St.
99	James E. Durnan	Private	27 Highland Ave.
80	Edward J. Tobin	Private	128 Otis St.
98	William E. Foley	Private	126½ Harvard St.
114	Ursise E. Fournier	Private	19 Holly Ave.

LADDER CO. NO. 3

A 85 foot Aerial Ladder Truck, motor driven, with all necessary equipment. Put in service November, 1921. Built by the American LaFrance Fire Engine Company.

Badge	Name	Rank	Residence
113	William C. Richardson . . .	Captain	34 Rockingham St.
89	Benjamin McArthur	Lieutenant	69 Norfolk St.
110	Mortimer J. Hartney	Private	59 Henry St.
108	Thomas J. Parks	Private	294 Prospect St.
97	John F. McPherson	Private	27 Grant St.
117	Morris A. Skold	Private	259 Washington St.
104	William F. McGrath	Private	166 Putnam Ave.
161	Louis C. Avery	Private	52 Fairmont St.
58	William H. Daley	Private	60 Boylston St.
55	William F. Davidson	Private	210 Windsor St.
151	William Quayle	Private	51 Amory St.
8	Louis H. Fabry	Private	100 Reed St.

LADDER CO. NO. 4

Ordinary city service truck, motor driven; equipped with 280 feet of ladders; longest ladder 50 feet extension; jumping net, life line, etc. Put in service July, 1920. Built by the American LaFrance Fire Engine Co.

Badge	Name	Rank	Residence
133	Edward F. Conroy	Captain	4 Nutting Rd.
6	Thomas F. Drummond	Lieutenant	11 Appleton Rd.
9	Edward F. Kelly	Private	60 Rice St.
79	John F. Collins	Private	235 Upland Road
132	Matthew F. Gleason	Private	24 Chilton St.
109	Joseph W. McCloskey	Private	71 Vassal Lane
14	Michael J. Murphy	Private	106 Fayerweather St.
74	Frank A. Hanley	Private	1 Dover St.
156	William F. Newman, Jr.	Private	29 Rindgefield St.
152	John A. Cardoso	Private	107 Inman St.
165	Hugh P. Quinn	Private	17 Copley St.
158	Joseph F. Flynn	Private	131 Garden St.

COMBINATION NO. 2

Combination hose and chemical, motor driven, with 1000 feet of 2½ inch hose and 200 feet of ¾ inch chemical hose, two 35 gallon tanks, and all other necessary equipment. Put in service, 1916.

Badge	Name	Rank	Residence
131	Richard J. Doyle	Captain	104 Fayerweather St.
134	Timothy Curran	Lieutenant	102 Fayerweather St.
41	Edward J. Shea	Private	375 Walden St.
87	James H. Sullivan	Private	53 Foster St.
135	Jeremiah J. Sullivan	Private	3 Locust St.
72	Charles P. Cox, Jr.	Private	121 Appleton St.
153	George H. Carrier	Private	6 Poplar Rd.
154	Lawrence A. Corcoran	Private	440 Huron Ave.

CHEMICAL NO. 1

A motor driven chemical engine; equipped with one 40 and two 50 gallon tanks, and all other necessary equipment. Put in service, August, 1920. Built by the American LaFrance Fire Engine Co.

Badge	Name	Rank	Residence
30	William F. Newman, Sr.	Captain	29 Rindgefield St.
40	John Gibson	Lieutenant	76 Reservoir St.
111	Edward L. Kelly	Private	368 Prospect St.
81	James E. Jefferson	Private	158 River St.
39	Joseph T. Ballantine	Private	69 River St.
95	Edward A. Malone	Private	51 Jay St.

CAUSES OF FIRES AND ALARMS

Accidental alarms	4
Automobiles	36
Bonfires	22
Careless use of matches	51
Careless use of lighted cigarette	45
Careless use of lighted candle	2
Careless use of gasoline	1
Children released from locked rooms	1
Children playing with matches	29
Chimney fires	72
Clothing too near hot stove	4
Christmas trees	3
Curtain against lighted lamp or gas jet	5
Dump fires	28
Electric cars	10
Electric wires on poles, trees, etc.	10
False alarms	73
False alarms from defective A. D. T. system	23
False alarms from defective automatic system	5
Fat or meat on stove	7
Firecrackers	9
Freight cars	3
Fumes from gasoline taking fire	2
Gas leaking from pipe, tube or meter	5
Grass or brush fires	30
Hot ashes in wooden box or barrel	9
Kerosene oil lamps	5
Leaves on street	5
Lightning	2
Oil stoves	5
Open and defective fire places	8
Overheated stoves or smoke pipes	3
Overheated boiler or drying room	6
Rekindle	3
Responded to alarms out of city	30
Rubbish in building or yard	21
Rats and matches	10
Set by boys	18
Shot circuit in electric motor or flatiron	3
Smoke or steam mistaken for fire	14
Smokey stoves	7
Sparks from furnace, fire-place or stove	10
Sparks from locomotive	4
Smoking in bed	4
Supposed incendiary	21
Spontaneous combustion	18
Thawing frozen water pipes	4
Tar kettle	1
Unknown	37
Unnecessary	32

REPORT OF THE CHIEF OF POLICE

OFFICE OF THE CHIEF OF POLICE

To His Honor, the Mayor and the Honorable City Council:

Gentlemen:—In compliance with the City Ordinance, I have the honor to submit the annual report of the Police Department for the year ending March 31, 1922.

ORGANIZATION OF THE DEPARTMENT

	Rank	Salary
1	CHIEF	\$3,000.00 per year
8	CAPTAINS	2,350.00 per year
12	LIEUTENANTS	2,150.00 per year
13	SERGEANTS	2,000.00 per year
146	PATROLMEN	1,825.00 per year
12	RESERVES	
	First year	1,460.00 per year
	Second year	1,680.00 per year
	Third year	1,825.00 per year
1	POLICE WOMAN	1,300.00 per year
2	MATRONS	14.00 per week

DEPARTMENT ROSTER

Name	Rank	First Appointment
McBRIDE, JOHN J., Chief		April 27, 1887
BRENNAN, MICHAEL J., Captain		April 14, 1884
CANNEY, JOHN J., Captain		May 28, 1901
ELLIS, FREDERICK M., Captain		December 28, 1897
HURLEY, PATRICK J., Captain		October 20, 1886
KEANEY, JAMES M., Captain		January 19, 1881
LEAHY, TIMOTHY F., Captain		September 6, 1898
MURRAY, JAMES E., Captain		May 18, 1870
WELCH, EDWARD J., Captain		November 14, 1893
AYLWARD, RICHARD H., Lieutenant		December 30, 1890
ABERLE, CHARLES F., Lieutenant		April 30, 1895
COADY, THOMAS F., Lieutenant		April 1, 1902
DONAHUE, JOSEPH J., Lieutenant		April 26, 1904
GINTY, WILLIAM B., Lieutenant		March 24, 1903
HALL, JAMES P., Lieutenant		April 27, 1884
McCORMY, JOSEPH F., Lieutenant		September 15, 1891
McMINIMEN, WILLIAM H., Lieutenant		April 21, 1880
MURRAY, PATRICK F., Lieutenant		April 7, 1884
NEILAN, MICHAEL, Lieutenant		December 28, 1887
POWERS, JOHN F., Lieutenant		April 26, 1904
WYMAN, CHARLES W., Lieutenant		May 3, 1898
BRADLEY, CHARLES E., Sergeant		May 29, 1900
CURTIN, WILLIAM A., Sergeant		January 13, 1909
DOUGLAS, ROBERT J., Jr., Sergeant		April 26, 1904
HEALEY, PATRICK J., Sergeant		May 3, 1904

Name	Rank	First Appointment
KELLY, JOSEPH,	Sergeant	April 3, 1906
LaMARCHE, FRANK D.,	Sergeant	May 29, 1900
McCAFFREY, BERNARD J.,	Sergeant	June 30, 1891
MAHONEY, GEORGE J.,	Sergeant	December 28, 1897
MULVANEY, SIMON J.,	Sergeant	February 23, 1892
NEILAN, JOHN P.,	Sergeant	May 8, 1899
PRESHO, CHARLES H.,	Sergeant	February 4, 1896
SHANNON, JOSEPH H.,	Sergeant	May 24, 1894
WINSLOW, JOHN E.,	Sergeant	January 22, 1889
ACKERLEY, JOHN M.,	Patrolman	December 12, 1906
ANDREW, FRANK,	Patrolman	June 26, 1906
ANDREW, WILLIAM M.,	Patrolman	November 3, 1908
BAGAN, JOHN H.,	Patrolman	October 11, 1910
BARRINGTON, GEORGE T.,	Patrolman	May 3, 1882
BATEMAN, WELLINGTON D.,	Patrolman	March 1, 1914
BIGGANE, WILLIAM F.,	Patrolman	April 3, 1906
BOURGET, JOSEPH A.,	Patrolman	February 27, 1912
BURKE, THOMAS F.,	Patrolman	April 26, 1904
BURKE, THOMAS F., 2d.,	Patrolman	March 1, 1914
CAHALANE, JOHN,	Patrolman	June 20, 1911
CALLAHAN, TIMOTHY J.,	Patrolman	October 24, 1917
CAMPBELL, THOMAS M.,	Patrolman	October 27, 1896
CANNEY, DANIEL F.,	Patrolman	June 20, 1911
CLEARY, MARK J.,	Patrolman	October 24, 1917
COLLINS, FREDERICK V.,	Patrolman	May 4, 1909
COMERFORD, EDWARD J.,	Patrolman	July 1, 1890
CONLAN, ANDREW,	Patrolman	April 3, 1906
COSGROVE, JOHN F.,	Patrolman	December 25, 1917
CRANE, TIMOTHY,	Patrolman	November 6, 1903
CULHANE, ROBERT G.,	Patrolman	July 18, 1903
CUMMINGS, JOHN F.,	Patrolman	May 5, 1908
CURRAN, FRANCIS P.,	Patrolman	May 24, 1915
CURRAN, MICHAEL J.,	Patrolman	May 5, 1908
CURTIN, PATRICK J.,	Patrolman	June 20, 1911
DAVIS, HARRY W.,	Patrolman	July 23, 1901
DEMPSEY, LAWRENCE P.,	Patrolman	June 26, 1906
DIEHL, ANTONE B.,	Patrolman	August 8, 1899
DOHERTY, JOSEPH F.,	Patrolman	April 26, 1904
DONOVAN, EDWARD F.,	Patrolman	April 1, 1915
DOW, WARREN H.,	Patrolman	*January 1, 1895
DOYLE, PATRICK,	Patrolman	January 3, 1877
DWYER, EDWARD E.,	Patrolman	May 4, 1909
DYNAN, ANTHONY,	Patrolman	June 20, 1911
DYNAN, LEÓ D.,	Patrolman	April 1, 1915
FABRY, FRANK J.,	Patrolman	May 5, 1908
FALVEY, JOHN H.,	Patrolman	January 28, 1914
FALVEY, TIMOTHY S.,	Patrolman	April 1, 1915
FLYNN, WILLIAM,	Patrolman	February 27, 1912
GALLAGHER, JEREMIAH J.,	Patrolman	April 26, 1910
GORDON, EDWARD C.,	Patrolman	December 12, 1906
GRIFFITHS, JOHN J.,	Patrolman	October 20, 1884
GUTHRIE, JOHN J.,	Patrolman	March 31, 1909
GUTOSKI, FRANK H.,	Patrolman	July 26, 1904
HACKETT, MORTIMER M.,	Patrolman	November 28, 1893
HALLIDAY, HERBERT E.,	Patrolman	April 1, 1915
HARNEY, THOMAS M.,	Patrolman	March 26, 1912
HARNEY, WILLIAM H.,	Patrolman	October 31, 1911

Name	Rank	First Appointment
HEALEY, MICHAEL J.,	Patrolman	January 31, 1917
HENRY, FRANK S.,	Patrolman	May 14, 1909
HEZLITT, JOHN A.,	Patrolman	April 12, 1892
HOGAN, MARTIN,	Patrolman	March 1, 1914
HOLT, JAMES H. H.,	Patrolman	December 28, 1887
HUMPHREYS, WILLIAM J.,	Patrolman	June 20, 1911
IRELAND, JEROME D.,	Patrolman	May 31, 1904
KEARNS, THOMAS P.,	Patrolman	April 26, 1910
KELLEHER, JOHN,	Patrolman	December 28, 1897
KELLEY, JOSEPH B.,	Patrolman	October 24, 1917
KELLEY, EDWARD J.,	Patrolman	March 29, 1918
KELLEY, EDWIN L.,	Patrolman	July 20, 1918
KEOUGH, JAMES R.,	Patrolman	*July 16, 1911
LANDRIGAN, JAMES M.,	Patrolman	June 20, 1911
LARGENTON, AUGUSTUS J.,	Patrolman	July 18, 1903
LAW, FREDERICK W.,	Patrolman	June 30, 1891
LEAHY, DENNIS F.,	Patrolman	February 20, 1894
LINEHAN, RICHARD J.,	Patrolman	October 24, 1917
LYNCH, DAVID E.,	Patrolman	April 1, 1911
MAHER, P. EDWARD J.,	Patrolman	April 1, 1915
MALLAHAN, CHARLES E.,	Patrolman	March 1, 1914
MALOY, JOHN P.,	Patrolman	September 17, 1889
McAULIFFE, THOMAS W.,	Patrolman	March 29, 1918
McCABE, EDWARD J.,	Patrolman	April 12, 1892
McCANN, CHARLES J.,	Patrolman	May 21, 1889
McCARTHY, DENIS,	Patrolman	April 1, 1915
McCARTHY, JEREMIAH H.,	Patrolman	April 7, 1886
McCARTHY, PATRICK J., Jr.,	Patrolman	April 1, 1915
McCOOL, WILLIAM M.,	Patrolman	January 16, 1912
McCREHAN, JOHN E.,	Patrolman	April 27, 1884
McCULLOUGH, FRANK C.,	Patrolman	March 17, 1913
McCULLOUGH, JOSEPH A.,	Patrolman	June 20, 1911
McFADDEN, RICHARD M.,	Patrolman	August 8, 1899
McKEOWN, WILLIAM F.,	Patrolman	April 12, 1892
McLAUGHLIN, FRANCIS A.,	Patrolman	March 21, 1911
McLAUGHLIN, FREDERICK,	Patrolman	*February 6, 1906
McMAHON, MICHAEL,	Patrolman	April 25, 1905
MELLO, MANUEL G.,	Patrolman	October 2, 1908
MORRISSEY, THOMAS J.,	Patrolman	March 1, 1914
MOYLAN, PATRICK E.,	Patrolman	June 26, 1906
MULLALLEY, JOHN T.,	Patrolman	May 5, 1908
MULLEN, ROBERT E.,	Patrolman	November 14, 1893
MULLIN, WILLIAM T.,	Patrolman	December 12, 1911
MULQUEENY, JOHN P.,	Patrolman	April 26, 1910
MULVIHILL, JOHN F.,	Patrolman	March 1, 1914
MURPHY, EDWARD L.,	Patrolman	April 1, 1915
MURPHY, PETER J.,	Patrolman	April 26, 1904
MURRAY, RICHARD A.,	Patrolman	March 17, 1913
NORMILE, MICHAEL C.,	Patrolman	March 26, 1912
O'BRIEN, DENNIS W.,	Patrolman	August 6, 1912
O'BRIEN, JOHN J.,	Patrolman	April 26, 1904
O'CONNELL, CHARLES P.,	Patrolman	May 4, 1909
O'DELL, WILLIAM L.,	Patrolman	June 10, 1908
O'LOUGHLIN, THOMAS F.,	Patrolman	June 1, 1914
PARKS, JOSEPH A.,	Patrolman	December 28, 1897
PATTEN, GEORGE A.,	Patrolman	April 26, 1904
QUIGLEY, CHARLES F.,	Patrolman	June 10, 1915
READY, PATRICK F., Jr.,	Patrolman	January 1, 1916

Name	Rank	First Appointment
REAGAN, DANIEL J.,	Patrolman	June 10, 1915
REAGAN, JAMES F.,	Patrolman	April 26, 1910
RIENDEAU, JOSEPH L.,	Patrolman	March 1, 1914
ROBERTS, JOHN W.,	Patrolman	February 6, 1900
ROBERTSON, WILLIAM H.,	Patrolman	June 30, 1891
ROPER, GEORGE B.,	Patrolman	July 5, 1914
ROWE, WILLIAM H.,	Patrolman	May 24, 1892
RUSSELL, JAMES D.,	Patrolman	April 26, 1910
SHANNON, THOMAS J.,	Patrolman	July 26, 1904
SHEA, THOMAS,	Patrolman	May 13, 1902
SHEEHAN, CORNELIUS,	Patrolman	June 2, 1903
SHEEHAN, JOHN J.,	Patrolman	June 2, 1903
STOKES, THOMAS J.,	Patrolman	August 1, 1913
SULLIVAN, EUGENE,	Patrolman	October 11, 1910
SULLIVAN, DENNIS J.,	Patrolman	*February 6, 1903
SULLIVAN, JOHN J.,	Patrolman	*December 29, 1891
TANSEY, JOSEPH F.,	Patrolman	April 3, 1906
TEMPLE, JOSEPH C.,	Patrolman	November 17, 1896
TEVLIN, JOHN J.,	Patrolman	April 26, 1910
TOOMEY, TIMOTHY J.,	Patrolman	October 24, 1917
TURCOTT, AMOS,	Patrolman	March 26, 1912
WALSH, DAVID H.,	Patrolman	October 23, 1896
WALSH, DAVID L.,	Patrolman	August 8, 1899
WALSH, JOHN,	Patrolman	December 12, 1906
WARD, WILLIAM F.,	Patrolman	*January 23, 1908
O'NEIL, FRANKLIN M.,	Reserve Officer	July 20, 1918
McNAMARA, MATTHEW J. F.,	Reserve Officer,	July 20, 1918
LYONS, PETER J.,	Reserve Officer	July 20, 1918
CALLAHAN, PATRICK J.,	Reserve Officer	July 20, 1918
MURPHY, PATRICK J.,	Reserve Officer	July 20, 1918
REARDON, JEREMIAH F.,	Reserve Officer	July 20, 1918
DRISCOL, WILLIAM J.,	Reserve Officer	October 20, 1918
MURPHY, EDWARD J.,	Reserve Officer	December 20, 1918
McCAFFREY, JOSEPH H.,	Reserve Officer	June 10, 1919
DONELAN, CHARLES P.,	Reserve Officer	June 10, 1919
GORMLEY, WILLIAM G.,	Reserve Officer	June 10, 1919
KELLEY, MARK J.,	Reserve Officer	June 10, 1919
BURKE, PHILIP T.,	Reserve Officer	June 10, 1919
MAHONEY, JEREMIAH F.,	Reserve Officer	June 10, 1919
KEANE, CORNELIUS P.,	Reserve Officer	November 16, 1919
WAIT, ALBERT J.,	Reserve Officer	November 16, 1919
CARROLL, THOMAS E.,	Reserve Officer	November 16, 1919
FOLEY, JOHN J.,	Reserve Officer	November 16, 1919
LEARY, THOMAS,	Reserve Officer	November 16, 1919
CROWLEY, JOSEPH J.,	Reserve Officer	November 16, 1919
NIXON, WILLIAM L.,	Reserve Officer	November 16, 1919
BREEN, JOSEPH P.,	Reserve Officer	November 16, 1919
KING, JOHN R.,	Reserve Officer	July 2, 1921
TRANT, JOHN J., JR.,	Reserve Officer	July 2, 1921
KEANE, CLIFFORD L.,	Reserve Officer	July 15, 1921
HACKETT, MORTIMER M. 2d,	Reserve Officer	July 15, 1921
TAYLOR, EDITH J.,	Policewoman	March 5, 1921
BARRON, MARY A.,	Matron	May 2, 1919
STEVENS, CATHERINE,	Matron	June 7, 1907

* Appointed as drivers; on February 28, 1917, by Special Act of Legislature they were made patrolmen.

OFFENSES FOR WHICH ARRESTS HAVE BEEN MADE

Crimes Against Persons:		Federal laws; violation of...	2
Abduction	2	Fornication	7
Assault	4	Fugitive from justice	1
Assault with intent to rob ...	4	Gaming and present at	40
Assault and battery	341	House of ill fame	1
Assault on officer	12	Idle and disorderly	15
Blackmail	1	Indecent language	1
Manslaughter	8	Indecent exposure	6
Murder	4	Insane	38
Rape	4	Lewd cohabitation	19
Rape; attempt	1	Lewdness	5
Robbery	15	Liquor laws; violating	293
Threats and intimidation	28	Liquor nuisance	3
Throwing missiles	1	Abuse of female child	1
Assault with dangerous		Unlawful sale of horse	1
weapon	5	Unlawful use of transfer	1
Assault; indecent	4	Unlawful riding in freight car	1
Accessory before the fact ...	6	Tampering with Police Box ..	1
Accessory after the fact	1	Loitering	13
	441	Motor vehicle laws	873
Crimes Against Property:		Non-support	335
Arson	5	Neglected children	34
Burglary	1	Neglect of children	6
Breaking and entering	236	Peddling unlicensed	17
Evading fare	2	Perjury	3
Larceny in building	3	Polygamy	2
Larceny	395	Giving articles to prisoners	
Larceny from person	11	in House of Correction with-	
Malicious mischief	52	out permit	1
Receiving stolen goods	23	Profanity	6
Trespass	118	Having burglar tools	2
Unlawful appropriation	19	Violation cigarette law	3
Conveying leased property ..	13	Runaway	36
Attempt; break and enter....	63	Knowingly contributing to the	
Attempt; commit larceny ..	10	delinquency of a delinquent	1
	951	Suspicious persons	24
Crimes Against Public Order:		Safe keeping	9
Attempt; to rescue prisoner..	6	Surrender of bail	1
Abortion	2	Stubbornness	56
Accosting opposite sex	7	Throwing glass in street	1
Adultery	6	Tramps	1
Abandonment	9	Unnatural act	1
Bastardy	1	Violation drug law	12
City ordinance, violation of..	76	Vagrants	7
Common drunkard	6	Violation milk law	3
Carrying concealed weapons.	36	Violation of milk can and bot-	
Contempt of court	2	tle law	2
Conspiracy	13	Violation child labor law....	6
Cruelty to animals	2	Violation park rules	7
Disturbing a religious meeting	2	Violation parole	3
Disturbing the peace	249	Violation probation	3
Dog, keeping unlicensed	3	Violation labor law	5
Deserters	8	Violation board of health ...	10
Drunkenness	2,222	Witness; material	3
Escaped prisoner	34	Allowing premises to be used	
False alarm of fire	2	for prostitution	1
Forgery	11	Failing to send child to school	1
		Total	4,629

RECAPITULATION

		Against Public Order	4,629
Against Person	441		
Against Property	951	Total	6,021

NATIVITY OF PERSONS ARRESTED

Algiers	5	Greece	41	Russia	456
Armenia	37	Hungary	3	Rumania	4
Austria	1	Holland	1	Scotland	21
Albania	6	Ireland	463	Sweden	19
Belgium	1	Italy	221	Switzerland	1
Brazil	4	Japan	2	Syria	3
Canada	282	Lithuania	52	Turkey	3
Denmark	7	Unknown	42	United States ..	3,922
England	47	Norway	2	West Indies	72
France	2	Peru	2		
Finland	4	Poland	114		
Germany	13	Portugal	120		

OCCUPATIONS OF PERSONS ARRESTED

Agent	27	Bricklayer	10	Boiler maker ..	1
Auto business ..	16	Helper	15	Fortune teller ..	1
Baker	44	Hotel keeper ..	1	Police officer ...	1
Barber	24	Housekeeper ...	171	Porter	13
Brass worker ..	1	Ice man	5	Railroad	12
Blacksmith	12	Inspector	12	Rubber worker .	90
Bookkeeper	13	Investigator	3	Sailor	49
Bootblack	1	Iron worker	78	Salesman	146
Brass finisher ..	3	Janitor	20	Student	238
Broker	5	Jeweler	5	Seamstress	1
Butcher	21	Junk dealer	19	Shipper	17
Carver	2	Laborer	1,628	Shoemaker	29
Buyer	2	Lather	5	Soldier	17
Candymaker ...	4	Laundress	6	Spinner	3
Caretaker	29	Leather cutter ..	6	Steamfitter	30
Carpenter	62	Lineman	1	Storekeeper	98
Chauffeur	583	Lumberman	2	Tailor	29
Chef	9	Laundry man ..	5	Teacher	1
Chemist	3	Macrinist	128	Teamster	220
Clerk	182	Manager	25	Telephone opera-	
Conductor	9	Manufacturer ..	7	tor	2
Contractor	11	Marine	1	Tinsmith	5
Cock	19	Mason	14	Trackman	1
Core maker	3	Merchant	141	Upholsterer	3
Dairy man	1	Milk dealer	7	Waiter	34
Decorator	2	Mill hand	10	Plasterer	3
Domestic	38	Motorman	1	Roofer	21
Electrician	35	Moulder	12	Lawyer	5
Embalmer	1	Newsdealer	8	Bookbinder	13
Engineer	21	None	504	Schoolboy	168
Expressman	6	Nurse	11	Peddler	28
Farmer	17	Office boy	14	Locksmith	2
Fireman	31	Painter	153	Treasurer	1
Foreman	11	Pattern maker .	11	Professor	2
Fruit dealer	4	Physician	10	Printer	54
Gardener	7	Plumber	35	Schoolgirl	3
Grocer	158	Pin boy	11	Cooper	19
Glass blower ..	5	Polisher	269	Waitress	2
Bartender	8	Gold beater	1	Undertaker	2

Plasterer	1	Packer	1	Stenographer ..	5
Sausage manu- facturer	1	Musician	3	Stock cutter ...	1
Tap keeper	1	Paper hanger ..	5	Rigger	1
Carriage trimmer	5	Pressman	4	Marble worker .	1
Cabinet maker..	4	Produce dealer..	1	Saleslady	1
Draftsman	5	Furrier	4	Housewife	63
Factory worker.	10	Architect	1	Florist	2
Piano worker ..	2	Minister	1	Restaurant	
Garage keeper .	1	Constable	1	keeper	5
Horse trader ..	1	Glazier	1	Auto mechanic..	20
Dressmaker	1	Paper ruler	4	Optician	1
Mechanic	4	Real estate agent	9		
		Veterinary	1		

MISCELLANEOUS

Value of property reported stolen	\$96,582 70
Value of property recovered	155,332 50
Value of property recovered for other Police Departments	5,970 00
Male prisoners .. 5690	Female prisoners.. 331
Non-residents	1576
Accidents	1,307
Bicycles found and recovered..	24
Buildings found open and se- cured	412
Cases investigated	8,783
Dangerous buildings	4
Dangerous chimneys	3
Dead bodies found	42
Defective catch basins	138
Defective drains and vaults...	37
Defective bridges	10
Defective trees	182
Defective fire alarms and clocks	29
Defective gas pipes	10
Defective water pipes	174
Defective hydrants	22
Defective lamps	4,599
Defective wires	291
Defective street signs	22
Defective streets and sidewalks	1,132
Disturbances suppressed	491
Dogs killed	52
Fire alarms given	291
Fires extinguished without alarms	133
Lost children restored	417
Sick and injured persons as- sisted	554
Stray teams put up	9
Summonses served	1,471
Summonses served for out of town	689
Warrants served for arrest ...	879
Persons reported missing	142

PROPERTY IN USE BY THE DEPARTMENT

Persons restored	91	2 Portable search lights	
3 Motor ambulanes		2 Pails	
1 Gasoline tank		198 Revolvers	
21 Blankets		9 Fire ropes	
4 Beds and bedding		6 Sets of law books	
175 Cap devices		22 Traffic belts	
85 Chairs		5 Wardrobes	
10 Clocks		2 Automobiles	
1 Couch		2 Bookcases	
5 Desk lamps		1 Bertillon book	
6 Directories		1 Camera and stand	
200 Fire alarm keys		1 Copy press	
2 Grappling irons		18 Cuspidors	
4 Ice water tanks		26 Desks	
36 Lanterns		200 Diaries	
4 Medicine cabinets		3 Filing cabinets	
8 Mirrors		5 Finger print outfits	
1 Private telephone system		6 Handcuffs	
200 Police badges		1 Leg irons	
200 Police manuals		1 Lungmotor	

3 Messenger bags	3 Typewriters
1 Motorcycle	10 Waste baskets
200 Police belts	5 Tables
195 Police clubs	4 Police signal system
2 Pulmotors	198 Fire alarm keys
200 Patrol box keys	3 hand hose
1 Rug	3 Fire extinguisher
2 Rogues gallaries	1 Operating table
3 Safes	1 65 gallon Bowser oil tank
2 Straight-jackets	1 Auto creeper

REPORT OF J. EDITH TAYLOR, POLICEWOMAN

Number of times assisted physician	6
Number of girls taken to clinics (for examination and treatment.....	5
Calls on account of complaints to police	38
Calls on account of complaints to me	14
Calls at home in interest of women and girls (minor cases, to give warn- ing to parents or advice to girls re-action on streets, etc.)	65
Visits to theatres	42
Visits to dance halls	126
Visits to stores	65
Warning given shop lifters	14
Girls, under arrest talked with and advised	11
Help given re-employment	5
Families referred to Welfare Association for aid	7
Reconciliations effected in families	8
Family troubles	19
Women reporting trouble with husbands	11
Men reporting trouble with wives	4
Girls infatuated with married men	5
Cases above, broken up	2
Calls of mothers or girls to station for consultation	21
Calls of mothers or girls at my home for consultation	19
Calls to station to search persons	8
Cases of disease reported	4
Abused children cared for	7
Abused children referred to S. P. C. C.	5
Stubborn girls interviewed	13
Girls talked with on street	118
Girls sent home (under age or other cause) from dance halls and theatres	7
Girls sent home after curfew (parents urged to be more careful and co-operative	29
Boys, ditto	18
Questionable houses investigated	4
Cases taken to clerk of court for warrants	7
Girls and women requested to work or stop objectionable habits during working hours	5
Number of arrests made	3
Men in autos warned re-soliciting girls	35
Girls sent to maternity homes	3
Girls soon to be sent to maternity homes	2
Runaway girls brought home	4

WAGON, AMBULANCE, TELEPHONE AND SYSTEM DUTY CALLS

Months	Wagon Calls	Miles Run	Ambulance Calls	Miles Run	Telephone Calls	System Duty Calls
<hr/>						
1922						
January	317	769.749	62	169.805	4,694	22,468
February	331	704.496	56	164.922	7,711	27,431
March	428	1,033.148	50	215.162	12,089	33,437
1921						
April	291	678.858	44	110.123	8,092	32,509
May	328	853.933	44	158.757	8,347	24,756
June	355	777.591	62	142.113	7,730	32,673
July	382	738.756	52	196.563	8,616	32,849
August	358	720.077	84	82.986	8,072	26,580
September	408	815.175	53	148.218	7,858	31,430
October	385	1,006.749	57	204.883	8,290	32,590
November	353	957.979	40	141.855	9,101	30,653
December	381	818.935	50	168.527	875	3,065
<hr/>						
Total	4,317	9,895.445	654	1,893.914	91,475	329,541

CHANGES IN THE FORCE

- 4 Reserve officers appointed.
- 13 Reserve officers appointed patrolmen.
- 1 Patrolman promoted to Sergeant.
- 1 Captain removed from force.
- 1 Patrolman pensioned.
- 1 Patrolman resigned.
- 1 Patrolman died.
- 1 Pensioner died.

In Memoriam

DANIEL J. HORGAN, appointed November 23, 1908; died April 22, 1921

FREDERICK L. LADD, appointed January 22, 1889 (pensioner);
died March 16, 1922

RECOMMENDATIONS

I recommend that all signs relative to traffic, painting of crosswalks, that money be appropriated to the Police Department for this purpose, as I believe that everything relative to traffic should come under the jurisdiction of the Police Department.

TRAFFIC

Today one of our most trying and important functions, a Police Department is the regulation of traffic. All Police Chiefs realize that traffic regulation has changed to a science.

Science of traffic regulation as it will be known from now on, to move traffic faster and faster, but still to have in mind, **THE SAFETY OF THE PUBLIC**, if you please the pedestrian.

I sincerely hope in the near future to see a State Law to control and regulate **THE PEDESTRIAN**, the same as the motor vehicles and teams.

With the increasing number of motor vehicles each year, new paved streets, means that traffic shall move faster and with a city like Cambridge which has such heavy traffic it means Police.

I recommend that six traffic semaphore standards with umbrellas, etc., this will allow the Traffic Officers to do more hours of duty.

I realize the hardships of traffic officers and I want to assure all good citizens, that the thought of the police officers' welfares are always first in my mind.

Respectfully submitted,

JOHN J. McBRIDE,
Chief of Police.

REPORT OF THE BUILDING DEPARTMENT

April 1, 1922.

Hon. Edward W. Quinn, Mayor, Cambridge, Mass.

Dear Sir:—

In accordance with the revised ordinances of this city, I transmit herewith the annual report of the Building Department for the year ending December 31, 1921.

INSPECTION OF BUILDINGS

Number of applications received and permits granted	1,110
Number of inspections of buildings	5,383
Number of violations	122

INSPECTION OF GAS FITTING

Number of applications received and permits granted	1,719
Number of inspections and tests	2,955
Number of violations	95

INSPECTION OF PLUMBING

Number of applications received and permits granted	467
Number of inspections and tests	1,796
Number of violations	9

INSPECTION OF ELEVATORS

Number of applications received and permits granted	30
Number of inspections and tests	708
Number of violations	103

Yours very truly,

JEREMIAH F. DOWNEY,
Superintendent of Public Buildings.

Classification of Building Operations by Occupancy

1921	January		February		March		April		May		June		July		August		September		October		November		December		Totals	
	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost
Apartments	3	1,035			4	2,165	2	2,150	5	12,635	8	2,090	4	725	1	400	12	4,595	2	270	4	12,905	1	240	4	27,600
Churches															1	4,300								1	4,300	
Schools & Colleges											2	19,000	3	3,750	1	500	1	5,000	1	13,000	1	10,000			9	51,250
Dwellings																										
1 Family	2	925		238	8	3,645	6	500	17	14,315	11	18,435	19	19,314	15	28,825	12	2,675	3	2,200	5	7,950	7	34,650	108	133,672
2 Family	3	1,050		1,225	13	8,485	18	4,380	11	22,545	23	49,663	14	18,775	22	6,875	12	3,569	11	39,380	9	17,140	8	32,790	149	205,877
3 Family				835	7	3,450	10	2,285	5	1,320	14	2,075	6	4,500	6	1,200	4	1,400	4	8,400	5	10,800			64	36,265
Factories	4	46,300		1,475	3	22,000	2	1,750	7	43,975	5	44,674	4	70,400	3	5,940	6	3,090	7	14,650	9	15,425	3	2,310	58	271,989
Garages	4	1,575		7,165	19	11,540	25	17,065	30	63,250	32	36,958	25	23,045	29	26,130	33	58,655	38	57,545	19	52,535	12	12,875	270	368,338
Stores	3	3,700		3,920	12	20,860	11	6,060	10	86,775	9	63,440	11	14,300	7	46,050	9	26,655	7	93,650	10	2,495	11	77,120	106	445,025
Storage	3	3,400		300	8	32,650	6	1,448	7	1,815	2	4,000	1	200	1	5,500			6	17,580	4	5,350	3	17,400	42	89,643
Miscellaneous	8	13,510		5,375	23	26,242	12	7,740	25	36,460	17	11,714	11	63,345	12	18,850	22	22,975	13	6,850	9	4,210	10	14,950	165	232,221
Torn Down	1				5		12		11		8		8		3		13		7		16		5	92		
Totals	31	71,495	33	20,533	102	131,037	104	43,378	128	283,090	131	252,049	106	218,354	101	144,570	124	128,614	99	253,527	91	127,200	60	192,335	1,110	1,866,180

Classification of Building Operations by Construction

1921	January		February		March		April		May		June		July		August		September		October		November		December		Totals		
	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	No.	Cost	
New Buildings: 1st Class 2nd Class 3rd Class Additions & Alteration:																											
			1	6,000	8	6,900	7	7,650	13	88,510	14	25,428	13	27,650	14	19,125	16	48,595	21	65,925	8	38,150	5	10,000	120	343,933	
			1	800	2	19,000	4	5,100	7	87,100	5	73,100	6	114,500	7	42,490	4	25,900	7	43,175			5	89,900	48	501,065	
	2	525	2	575	20	30,055	17	5,415	24	13,285	25	71,350	16	16,565	13	28,015	16	6,785	21	41,550	13	21,735	12	62,625	181	298,480	
			2	550	4	15,200			3	3,500	2	27,050	2	7,000	1	5,000	2	4,000					4	1,260			20	63,560
1st Class 2nd Class 3rd Class Torn Down	13	65,110	10	9,335	9	22,900	12	7,785	17	56,725	9	26,304	14	27,502	9	20,350	25	24,214	12	77,000	7	14,875	9	5,870	146	357,970	
	15	5,860	14	3,273	54	36,982	52	17,428	53	33,970	68	28,817	47	25,137	54	20,590	48	19,120	31	25,875	43	51,180	24	23,940	503	292,172	
	1		3		5		12		11		8		8		3		13		7		16		5		92		
Totals	31	71,495	33	20,533	102	131,037	104	43,378	128	283,090	131	252,049	106	218,354	101	144,570	124	128,614	99	253,525	91	127,200	60	192,335	1,110	1,866,180	

REPORT OF THE SUPERINTENDENT OF STREETS

To the Honorable, the City Council:
Gentlemen:—

In accordance with the provisions of Chapter 25 of the Revised Ordinances of the City of Cambridge, the annual report of the Superintendent of Streets for the fiscal year ending March 31, 1922, is herewith submitted.

The appropriations for the maintenance of the department are supplied from the revenue derived from the general tax levy under three headings, Maintenance, Stable and Sanitary.

Each of these is itemized under a standard classification known as the "segregated budget." The items in this budget are shown in the following financial statements only in totals and a separate classification showing the functional divisions of General Maintenance, Street Cleaning, Street Watering and Oiling, Snow Removal, Bridges and Pavement Repairs is presented instead.

The Stable account represents the amounts expended for the maintenance of stables, horses and horse-drawn equipment and a proper proportion of this cost has been added to each of the above classes based upon the number of horse days labor worked in each.

MAINTENANCE GENERAL — SEGREGATED BUDGET FORM

A-1 Maintenance, Personal Service	\$188,456 35
B-1 to 39, Service other than Personal	13,230 11
C-1 to 17, Equipment	3,600 10
D-1 to 16, Supplies	7,273 05
E-2 and 3, Materials	19,473 74
F-11, Workmen's Compensation	1,425 88
F-12, Bitulithic Repairs	5,344 72
F-12, Third Street Bridge	1,948 05
F-12, Sixth Street Bridge	1,559 95
F-12, Commercial Avenue Bridge	29 74
	<hr/>
	\$242,611 69

Maintenance Stable Charge Apportionment	\$8,981 70
Street Cleaning Stable Charge Apportionment	7,793 45
Street Watering Stable Charge Apportionment	
Snow Removal Stable Charge Apportionment	502 25
Pavement Repairs Stable Charge Apportionment	418 95
Bridges Stable Charge Apportionment	
Total Maintenance Expenditures	<u>\$260,308 04</u>

APPORTIONMENT OF STABLE CHARGES, 1921-1922

A-1 Stable, Personal Service	\$58,409 26
B-1 to 39 Stable, Service other than Personal	2,398 66
C-1 to 17 Stable, Equipment	7 84
D-1 to 16 Stable, Supplies	41,923 77
F-11 Stable, Workmen's Compensation	827 14
Total expenditure	<u>\$103,566 67</u>
Number of days horse labor	
Maintenance	3,666
Cleaning	3,181
Snow Removal	205
Pavement Repairs	171
Watering	
Collection of Ashes	23,158
Collection of Offal	8,395
	<u>38,776</u>
Miscellaneous construction accounts	3,510
	<u>42,286</u>
Average cost per horse per day	\$2 45

Apportionment to above accounts

Collection of Ashes	\$56,703 07
Collection of Offal	20,567 75
Cleaning	7,793 45
Snow Removal	502 25
Maintenance	8,981 70
Pavement Repairs	418 95
Construction Accounts	8,599 50
	<u>\$103,566 67</u>

MAINTENANCE GENERAL

Executive office

Superintendent salary	\$3,000 00
Clerks	4,770 00
Printing	120 45
Postage	10 00
Advertising	394 16
Telephone	196 65
Office supplies and stationery	640 70
Machine repairs	4 05
Water and ice	50 47

9,186 48

General expenses

Labor, payrolls	\$52,945 90
Compensation for injured employees	1,425 88
Stable charge, use of horses	8,981 70
New horses	2,866 50
Medical service	42 00
Freight	25 28
Boots	8 82

Road Materials

Crushed stone	\$3,275 24
Patching compounds	1,098 69
Grates	60 27
Wood blocks	714 42
Tarvia "X"	1,310 34
	<hr/>
	6,458 96

Motor supplies and repairs

Mechanical repairs	\$234 00
Tire repairs	66 20
Battery service	16 46
Gasoline	2,594 12
Parts	598 67
Oil	294 16
Grease	72 55
Tires and tubes	828 02
License fees	47 00
	<hr/>
	4,752 07

Steam roller parts and repairs

Machinery repairs	\$330 39
Repair parts	98 30
Cotton waste	45 86
Coal	199 67
Inspections	40 00
	<hr/>
	914 22

Street signs, stock and supplies

Stock for signs and posts	\$209 49
Kerosene	212 76
Lanterns and globes	288 60
Street line paint	305 90
	<hr/>
	1,016 75

Patching bitulihic pavements	\$5,344 72
------------------------------------	------------

STREET CLEANING

Labor, payrolls	\$76,454 49
Hired teams	2,725 50
Stable charge	7,793 45
Refilling machine brooms	63 13
Tools	185 88
New equipment	358 68
	<hr/>
	\$87,581 13

STREET WATERING

Labor, payrolls	\$58 93
Sprinkling by hired teams	7,288 43
Power for pump plant	12 00

Road oils and surfacings

Road oils	\$6,514 87	
Testing oils	47 04	
Tarvia "B"	3,796 20	
Sand	572 19	
		<hr/>
		10,930 30

Repairs to standpipe 26 58

\$18,316 24

BRIDGES

Drawtenders salaries	\$27,271 30	
General labor	1,591 77	
Power and light	461 88	
Coal	113 75	
Salt	16 46	
New chains	136 10	
Lumber and hardware	2,255 97	
Machinery repairs	541 09	
Electrical repairs	307 13	
Rent of motor	34 30	
Huron Avenue Bridge watchman expense	171 10	
Contract repair work		
Third Street Bridge	\$1,948 05	
Sixth Street Bridge	1,559 95	
Commercial Avenue Bridge	29 74	
		<hr/>
		\$3,537 74

\$36,438 59

SNOW REMOVAL

Labor, payrolls	\$14,021 29	
Stable charge	502 25	
Tools	547 69	

15,071 23

PAVEMENT REPAIRS

Labor, payrolls	\$8,342 67	
Stable charges	418 95	
Sand	145 55	

8,907 17

Tctal

\$260,308 04

COLLECTION OF ASHES

Foreman	\$2,100 00	
Laborers at \$4.50	94,606 59	
Laborers at \$4.25	68,173 92	
Stable charge, use of horses	56,703 07	
Automobile repairs	32 29	
Automobile fees	24 00	
Automobile supplies	185 67	
Medical service	145 25	
Repairs to incinerator, Main Street	625 22	
Pipe line into ash dump, Sherman Street	202 37	
Lumber for dump fence	62 38	
Fire hose for dump	256 66	
Tools	103 63	
Use of tractor	12 10	
Compensation payments to injured employees....	1,080 26	

224,313 41

COLLECTION OF HOUSE OFFAL

Foremen and sub-foremen	\$2,609 90	
Laborers at \$4.25	68,365 04	
Stable charge, use of horses	20,567 75	
Compensation payments, injured employees	3,862 19	
Advertising	11 00	
Automobile repairs	32 29	
Automobile fees	12 00	
Automobile supplies	185 66	
Medical service	144 65	
Towel supply	4 90	
Repairs to house		
Plumbing	\$889 98	
Painting	71 91	
Roofing	173 00	
	<hr/>	1,134 89
Tubs	38 96	
	<hr/>	96,969 23
Total expenditures		\$321,382 64

COLLECTION OF ASHES

During the year there were 23,080 six-yard loads, 4,528 two-yard loads and 9,772 one and one-half yard loads of ashes collected and 7,216 four-yard loads of paper collected.

With the exception of the paper which was delivered to the two incinerators, all this material was dumped in the western part of the city in open dumps. Some difficulty was experienced late in the fall by the dump catching fire and burning underneath, giving off smoke but lines of hose were laid and this fire was extinguished after a short time. It will be necessary to buy additional equipment next year in order to keep this burning under control at all times.

The area being used for dumping purposes which is owned by the New England Brick Company is filling rapidly and I again recommend that proper provisions be made for securing city-owned land for disposing of the tremendous quantity of material that is collected each year.

An order of the City Council providing for the Massachusetts Institute of Technology to co-operate with this department in making certain investigations and experiments with the ash hoppers and trucks is now being cared for, and arrangements are being made with Professor Miller to carry out the order. This will be done early in April.

The matter of dividing the city into two sections with six-day conditions will warrant the same being put into effect, it will be routes in each section is being carefully considered, and if the tried out some time during the year.

COLLECTION OF GARBAGE

There were 17,238 cord feet of offal collected during the year which was disposed of at the North Cambridge Yard to hog farmers.

The receipts from the sale of this material were \$16,277.97 and were turned over to the City Treasurer each day. The accounts are in good condition. Most of the larger consumers pay regularly each month and the smaller ones daily.

The equipment is subject to severe wear and much of it should be renewed completely. I feel that a two-horse cart of about five cubic yards capacity could be effectively used in certain of the routes where there are numbers of restaurants and large apartment houses which require daily collection.

BRIDGES

The maintenance repair cost of bridges under the supervision of this department has been a somewhat expensive one this past year owing to the fact that the three Canal Bridges over the Broad Canal have required extensive and continuous repair. Early in the spring, Third Street became in such dangerous condition that the piling had to be renewed and reinforced in several places and the oak walings replaced.

Sixth Street required similar treatment and at the present writing both bridges are in safe condition insofar as the sub-structures are concerned, but both bridges will require constant inspection and a recommendation for their complete reconstruction will be made to the Council.

First Street Bridge is by far the worst of the three, as it is in such condition both in its piling and stringers and deck surface as to make it positively unsafe for the traffic it carries, much longer.

All three require continuous deck repair and considerable money had to be expended in repairing the motors and chains. A new spare motor which will be available for emergency, should be

added to the bridge equipment, and at least two spare hoist chains should be kept in stock at all times.

Commercial Avenue Bridge must be re-decked entirely this spring and extensive repairs made to the motors and wiring. The other bridges in the department have been inspected and the City Engineer's report is herewith given.

REPORT ON EXAMINATION OF BRIDGES

MARCH, 1922

WELLINGTON BROOK BRIDGE

The abutment wall on the southwest corner is broken and pushing forward into the brook. In several other places in both walls the stones are loose and falling out. Several of the floor timbers are rotted on the under side. A new fence is needed on the west-erly side and partly on the east side.

ALEWIFE BROOK CULVERT

This culvert is in good shape. The fence pipe rail on top should be painted.

WALDEN STREET BRIDGE

This bridge should be painted, especially at the line where the concrete deck meets the girders. Over the northerly rail at the under side of the center girder, there is a hole in the concrete up to the flange of the steel girder, which allows the moisture to gather and is causing it to rust. *This should be filled up at once.*

Otherwise the bridge is in good condition.

FOUNTAIN TERRACE BRIDGE

The fence and bridge need painting very badly as some parts are already rusted to some depth. The clay washes over the foot of the columns and causes them to be wet most of the time.

HURON AVENUE AND FITCHBURG RAILROAD BRIDGE

Watertown Branch Railroad

The bridge is in good condition but needs painting. There are two diagonals which come over the exhaust from the engine which should be protected. The wood protection on the girder on the southerly side should be extended to further protect this girder.

L. W. HASTINGS,
City Engineer.

GENERAL MAINTENANCE

The expenditures under this heading are for the general upkeep of existing surfaces, tar and waterbound macadam, wood block, bitulithic, vitrified brick and granite. Hot patching on the tar streets was started early in the spring and the greater part of the tar area given blanket-coating with cold tar and sand. The practise of cold tar treating waterbound surfaces was continued this year and has been found to be more economical than treatment with lighter and volatile oils.

The automobile equipment has been maintained out of this item proportionately as to their use.

The new municipal garage was completed late in the fall and turned over to the department. It occupies the Hampshire and Norfolk Street sides of the department yard and includes an office, garage and repair shop, carpenter shop, harness shop, blacksmith shop, paint shop and roller house for four steam rollers. It was equipped with such machinery as the appropriation would allow, and a recommendation for up-to-date equipment for all the shops will be made to the Council.

A new steam roller should be added to the department equipment to replace one of the older machines which, if not replaced, will require extensive repairs.

In co-operation with the Police Department, signs and posts of different kinds were installed and the main streets were kept painted with white lines to direct and control traffic. It is proposed to install a new style beacon with flashing light at certain of the street intersections where traffic accidents are most frequent.

The bitulithic pavement out of guaranty was as liberally repaired as the limited appropriation will allow, and subsequent defects have been repaired with hot tar and in some instances cold

patch. This treatment, however, does not last very long and emphasizes the need of a small plant, equipped to turn out asphalt patch, and keep this area of bitulithic pavement which is steadily increasing each year in good repair.

The section force has been kept at work the entire year and much of their equipment such as carts, cans and tools has been renewed and painted. Supplementing this force, extra gangs have been employed at various times in the year to clean certain sections of the city which needed special attention.

The use of light non-asphaltic oils has been reduced the past year and cold tar application with sand blanket has been substituted on a large number of the older macadam streets, and with good results. It has been found to last at least two seasons and even longer, while the oil does not last out the one season.

The winter season was not especially a severe one and the storms were handled with but little difficulty. If the department had a good serviceable tractor, it would be used to good advantage in heavy snow.

CRAIGIE STREET

Entire

Appropriation		\$16,000 00
Payroll	\$3,122 05	
Tools	166 60	
Bitulithic surface	10,497 27	
Fuel	73 77	
Lighting	2 55	
Stable charge	850 00	
	<hr/>	14,712 24
Balance		<hr/> \$1,287 76

This street was constructed with Bitulithic Pavement on the old macadam base. There were 4,825 square yards in the job. It now makes a connecting link between Brattle Street and Concord Avenue.

LINNAEAN STREET

Entire

Appropriation		\$24,000 00
Payroll	\$2,196 68	
Tools	23 39	
Crushed stone	119 62	
Bitulithic surface	17,779 00	
Fuel	41 40	
Stable charge	425 00	
	<hr/>	20,585 09
Balance		<hr/> \$3,414 91

This street was constructed with Bitulithic Pavement on the old macadam base. There were 8,172 square yards in the job.

It is a great improvement and furnishes traffic with a smooth easy-riding surface from Massachusetts Avenue to Garden Street.

AUSTIN STREET

Columbia Street to Main Street

Appropriation		\$7,989 07
Payroll	\$1,726 59	
Roller repairs	49 30	
Tools	16 66	
Crushed stone	33 01	
Bitulithic surface	5,360 43	
Fuel	17 00	
Lighting	27 98	
Stable charge	80 00	
		<hr/>
		5,310 97
Balance		\$2,678 10

This section of Austin Street was completed with Bitulithic Pavement. This finished the paving of Austin Street. There were 1,544.6 square yards in the job. It was laid on old macadam.

BRATTLE STREET

Lexington Avenue to Mt. Auburn Street

Appropriation		\$19,875 23
Payroll	\$4,710 39	
Teaming	264 00	
Roller repairs	55 83	
Tools	106 67	
Bitulithic surface	12,376 99	
Fuel	99 79	
Lighting	21 56	
Stable charge	2,240 00	
		<hr/>
		19,875 23

This section of Brattle Street was constructed with Bitulithic Pavement on the old macadam base. It is now complete from Brattle Square to the end, and there are 5,689 square yards in the job.

SHERMAN STREET

Huron Avenue to Railroad Crossing

Appropriation		\$24,772 39
Payroll	\$4,895 35	
Roller repairs	49 29	
Tools	138 91	
Bitulithic pavement	18,596 80	
Fuel	45 32	
Lighting	41 65	
Stable charge	1,005 00	
		<hr/>
		\$24,772 39

This street was constructed with Bitulithic Pavement on the old macadam base. There were 8,547.9 square yards in the job.

WALDEN STREET

Railroad Bridge to Copley Street

Appropriation		\$34,500 00
Payroll	\$4,564 35	
Lumber	72 52	
Roller repairs	49 31	
Tools	288 12	
Crushed stone	240 34	
Cinders	19 60	
Bitulithic pavement	25,328 99	
Fuel	149 43	
Lighting	145 53	
Stable charge	1,310 00	
		<hr/>
		32,168 19
Balance		<hr/>
		\$2,331 81

This street was constructed with Bitulithic Pavement on the old macadam base. There were 11,642.3 square yards in the job. It is now being used by large numbers of travellers to reach the Huron Avenue Section from North Cambridge.

KENDALL SQUARE

Appropriation		\$40,000 00
Payroll	\$21,648 56	
Recutting blocks	2,984 50	
Tools	658 74	
Concrete, stone and sand	3,859 51	
Cement	3,643 18	
Lumber	24 23	
Fuel	102 72	
Lighting	134 27	
Boiler inspection	5 00	
Stable charges	3,540 00	
		<hr/>
		36,600 71
Balance		<hr/>
		\$3,399 29

This section of Main Street was rebuilt during the summer by recutting the old blocks in the street, relaying them upon a concrete base with sand cushion and grouting with cement.

The job was started at Third Street and ended at a line at right angles to McDonald Place. The railway company reconstructed the tracks between these points.

It is anticipated that the same type of work will be continued in the coming year by constructing this street to the Boston and

Albany Railroad Crossing. Eventually, the lower section on both sides of the subway entrance will be rebuilt, and the upper section from the crossing to Massachusetts Avenue, also, which will complete the street, and it is believed that much of the traffic bound for the business section of Boston will be diverted from Massachusetts Avenue and the Harvard Bridge.

EDGESTONES AND SIDEWALKS

Total Appropriations		\$50,607 65
Payroll	\$26,874 77	
Tools	269 86	
Bricks	5,190 30	
Edgestones	12,505 40	
Sand	1,365 30	
Granolithic Walk	88 09	
Rebates on Granolithic Walks	629 59	
Lighting	444 34	
Stable charges	3,240 00	
		<hr/>
		\$50,607 65

The largest amount of work for many years was done the past season. The edgestones were set on Walden, Linnaean, Craigie and other streets constructed during the year, and a considerable number of smaller jobs were done. There are still many petitions in the files for edgestones and brick sidewalks which will be started early in the Spring. Granolithic sidewalks are increasing and with a lower cost for brick sidewalks, an increase in this class of work is anticipated.

FIVE YEAR BALANCES OF 1920

Appropriation		\$91,060 32
Sand	\$1,368 01	
Tarvia "B"	7,335 63	
Standard, No. 6	456 68	
		<hr/>
		\$91,060 32

The above amounts were expended for seal coating, bituminous macadam streets constructed previous year.

BITUMINOUS MACADAM STREETS BUILT IN 1921

NAME	Labor	Stone	Binder	Fuel Etc.	Gravel	Stable Charge	Total	Yards
Clark, Main to Harvard	\$271.81	\$808.42	\$509.35				\$1,589.58	2,440
Camelia Avenue, entire	1,924.63	141.46	423.36		432.19	645.00	3,566.64	1,600
Copley, Walden to Fayerweather	782.83	568.89	317.52	32.00		85.00	1,786.24	1,602
Davenport, entire	546.24	900.94	304.29	58.14		70.00	1,879.61	1,645
Ellsworth Park, entire	109.00	255.51	134.94	42.27			541.72	511
Fainwood Circle, entire	225.18	434.41	370.44	19.87			2,049.90	1,143
Fairview Avenue, entire	129.78	225.57	105.84	16.66		100.00	577.85	777
Fayerweather, Walden to Concord Ave.	1,716.84	1,968.73	1,768.24	48.05		390.00	5,891.86	4,200
Grigg, entire	399.48	824.63	591.38	17.00		25.00	1,857.49	2,250
Hubbard Park Road, entire	269.66	637.69	265.80	33.34			1,206.49	700
Harvey, Clifton to end	74.50	448.82	105.84			10.00	639.16	750
Hudson, entire	46.34	430.82					477.16	700
Irving, Cambridge to Kirkland	560.05	1,329.72	635.04	32.36		10.00	2,567.17	2,460
Lincoln, Elm to Willow	426.96	877.35	793.80	86.43		60.00	2,244.54	2,300
Moore, Washington to Harvard	159.06	224.15	105.84	39.63		60.00	588.68	800
Marcella, entire	195.13	381.94	423.36	40.38			1,040.81	935
Oxford Ave., Fairview to Belmont Line	432.35	380.92	132.30	51.27		105.00	1,101.84	900
Orchard St., Davenport to Somer. Line	460.21	1,708.82	991.33	43.00			3,203.36	2,428
Poplar Road, entire	280.31	535.35	211.68			230.00	1,257.34	1,400
Pioneer, Main to Broadway	84.25	150.91	181.40	17.00			433.56	533
Roseland, entire	289.34	935.34	436.59	77.44			1,738.71	1,666
Raymond, Walden to Upland Road	205.50	881.34	528.71				1,615.55	2,000
Sidney, Erie to Henry	850.04	1,633.49	1,063.70	181.47		95.00	3,823.70	4,370
School, Austin to Portland	416.39	1,240.96	943.30	76.22			2,676.87	2,655
Sumner Road, Cambridge to Kirkland	244.64	1,186.42	819.77	17.00			2,267.83	1,740
Tannery, entire	542.96	1,524.43	992.25	26.63			3,086.27	2,000
Union, Hampshire to Lincoln	186.37	362.22	264.60	17.00		60.00	890.19	1,470
Wendell, Massachusetts Ave. to Oxford	1,022.66	2,624.71	1,690.50	154.61		335.00	5,827.48	5,430
Waverly, Putnam Ave. to Allston	264.63	518.39	398.48			10.00	1,191.50	1,130
Cambridge Terrace, entire	113.50	564.97	441.72	34.00			1,154.19	1,280
Totals	\$13,230.64	\$24,707.32	\$15,951.37	\$1,161.77	\$432.19	\$2,290.00	\$57,773.29	53,815

STREETS RESURFACED WITH OLD MATERIALS

NAME	Labor	Stone	Binder	Total	Yards	Loads
						Fill
Buckingham, entire	\$160.50	\$37.00	\$81.00	\$278.50	3,640	64
Bond, entire	86.25	43.20	162.00	291.45	1,745	34
Fountain Terrace, entire	105.25	60.00	216.00	381.25	1,500	10
Garden, Taylor Square to Walden	244.25	132.00	325.25	701.50	2,700	87
Larch Road, Brattle to Huron Avenue	214.00	180.00	351.00	745.00	4,650	87
Mt. Pleasant, entire	100.00	336.00	202.00	638.00	1,800	60
Vincent, entire	146.00	204.00	1 35.00	485.00	1,100	29
Whittier, entire	132.00	218.50	270.00	620.50	1,200	30
Totals	\$1,188.25	\$1,210.70	\$1,742.25	\$4,141.20	18,335	401

These streets were resurfaced with the old macadam surface removed from Walden and Brattle Streets. They were simply sacrificed, the filling spread on and some new stone and binder rolled into the surface. They will be blanket-coated in the spring and considering the amount of traffic should last for some few years with proper maintenance.

BRIDGES

From Loan Balances	\$4,050 00
Commercial Avenue	
Rebuilding piling	\$4,050 00

It was found necessary to rebuild all the pile fenders and install new oak walings along the concrete abutment in the draw ways. The old fender piles were pulled and new oak sticks put back in their places. The concrete wall which was broken by the impact of vessels striking it was also replaced, and the structure beneath the bridge is now in excellent condition and should last for several years.

MUNROE STREET

Appropriation	\$21,791 94
Payroll	\$13,311 59
Teaming	650 00
Tools	256 81
Concrete, stone and sand	200 94
Cement	681 40
Recut blocks	2,611 70
Fuel	84 50
Recutting blocks	1,516 93
Stable charges	1,780 00
	\$21,791 94

This street was started late in the fall on account of a sewer trench put through during the summer, and the work of paving was held off until the trench settled.

Edgestones were set on both sides and the necessary grading completed. It was left unfinished on account of cold weather, and the work of constructing the concrete base and laying the recut block will be commenced when the weather permits in the spring.

RECOMMENDATIONS

The greater part of the coming year's program has already been mapped out and a large amount of work will be accomplished during the season.

Munroe Street, from Sixth to Third Streets, which was closed in on account of the cold weather late in the fall, will be paved and grouted early in the season.

Main Street will be repaved from where the work was left at Kendall Square this year, up to the Railroad Crossing in the same manner. The old block will be recut, a concrete base laid and the

blocks relaid and grouted with cement. It is expected that Main Street will be continued in the following year and eventually the entire job from the bridge abutment to Lafayette Square will be done in this manner. Such an improvement as this will be greatly appreciated by those desiring a short route to the business section of Boston, and will relieve the traffic now passing over Harvard Bridge.

Brattle Square will be covered with a Bitulithic surface the coming season, and I propose to use the old worn out block surface as a base for the new surface, as the blocks are not worth taking out and cutting over.

Pleasant Street, its entire length, is proposed for Bitulithic and will be started early. This should lessen the traffic now using Magazine Street.

I desire to extend my thanks and appreciation to the City Council and His Honor, the Mayor, for their assistance during the year, and also those employed in the department in their various capacities.

Respectfully submitted,

EDWARD J. DUNPHY,

Superintendent of Streets.

STREET DEPARTMENT
INVENTORY OF REAL AND PERSONAL PROPERTY
Real Estate

Location	Buildings and Land	Erec- tion of Build- ings	Pur- chase of Land	Feet of Land	Valua- tion of Land	Valua- tion of Build- ings
Raymond St....	City Yard and Stable, stable, sheds, scales etc.....	1897	1896	272,670	\$27,300	\$27,000
	Incinerator plant.....	1912	....	.....	.....	5,000
Hampshire St...	City Stable, sheds, sta- bles and scales, includ- ing old police station.	1885	....	72,661	32,400	16,000
E. S. Norfolk St.	Yard and pound.....	....	....	34,650	13,900	300
Acton, Mass....	Land, gravel bank.....	....	1896	.....	3,000	.....
Main St.....	Land and incinerator plant.....	1908	....	52,000	32,700	11,200
					\$109,300	\$59,500

Total valuation of real estate \$168,800 00

PERSONAL PROPERTY

100 horses	\$30,000 00
15 watering carts	4,000 00
80 single and double carts	8,000 00
125 sets harness	2,000 00
1 steam mixer	5,000 00
2 concrete mixers	1,000 00
1 grouter	500 00
7 automobiles	3,500 00
3 five-ton trucks	8,000 00
4 steam rollers	12,000 00
22 Shadbolt carts	8,000 00
1 Watson cart	200 00
350 feet straight edgestone	350 00
30,000 second hand vitrified brick	600 00
30,000 second hand granite blocks	1,750 00
25,000 recut blocks	1,250 00
50 tons crushed stone	100 00
Oil storage, Portland Street	1,000 00
Oil storage, Raymond Street	1,000 00
Stone crushing plant, Raymond Street	1,000 00
Furnace, Main Street Incinerator	7,000 00
Miscellaneous machinery	600 00
Miscellaneous tools, riad machines, brooms, scrapers, machine brooms, waste barrels, push carts, etc.	9,000 00
Miscellaneous wagons, plows, pungs, etc.	2,000 00
Stock of grain, hardware, paints and general shop supplies....	1,000 00
Total	\$108,850 00
Valuation of real estate	168,800 00
	\$277,650 00

BOARD OF HEALTH

ELIE H. LAPIERRE, Chairman

JOSEPH M. WADDEN, M. D. JEREMIAH S. SULLIVAN, ESQ.

Medical Inspector

SIMON B. KELLEHER, M. D.

Clerk of the Board

JOHN D. CROWLEY

Settlement Worker
RENA ESTABROOK

Office Assistants
AGNES M. WADDEN
GERTRUDE M. MANNING
GERTRUDE R. MULLONEY

Inspector of Provisions
JOSEPH L. JOHNSON

Inspector of Slaughtering
DAVID L. BOLGER, D. V. S.

Sanitary Inspectors

*CHARLES A. LINCOLN
MICHAEL T. WALSH
†FRANCIS W. POWERS

FRANCIS H. NUGENT
PATRICK J. MURPHY
EUGENE P. CALLAHAN

THOMAS F. PHELAN

Plumbing and Housing Inspector
AUGUSTIN M. JOHNSON

Drivers
DENNIS SULLIVAN
FRANCIS W. POWERS

Bacteriologist

WALTER C. FEELEY, M. D.

Inspector of Milk and Vinegar
WILLIAM A. NOONAN, M. D.

Collector of Samples
THOMAS J. COLLINS

School Inspectors

WILLIAM H. CLANCY, M. D.
JOSEPH M. WADDEN, M. D.
WILLIAM E. FLEET, M. D.
SAMUEL E. CHALFEN, M. D.
CHARLES M. HUTCHINSON, M. D.
JOHN P. NELLIGAN, M. D.

JOHN F. FAIR, M. D.
EUGENE A. McCARTHY, M. D.
FRANCIS J. BARNES, M. D.
WILLIAM H. BURKE, M. D.
ARTHUR MOLL, M. D.
JOHN J. MURPHY, M. D.

SUMNER C. ANDREWS, M. D.

Head School Nurse

MARY C. CHURCH, R. N.

Assistant School Nurses

MARGARET N. H. McGRATH
MARY A. KENNEY, R. N.
MARGARET T. DINAN, R. N.
*KATHRYN HURLEY, R. N.

BEATRICE DOHERTY-HAYDEN, R. N.
M. ETTA TIERNEY
MINNIE K. MURPHY, R. N.
ELIZABETH HAYDEN, R. N.

*HELEN S. DAVIS, R. N.

School Dentists

EMILY M. LUCK, D. M. D.

MATTHEW F. SHEA, D. M. D.

Physician to Tuberculosis Hospital
FELIX F. McGIRR, M. D.

Matron at Tuberculosis Hospital
MINNIE A. SIMPSON, R. N.

Physician to Tuberculosis Dispensary
PATRICK J. FLEMING, M. D.

Tuberculosis Nurses
MARY L. THACHER, R. N.
HELEN C. CUMMINGS, R. N.

Infant Welfare Nurses

BRIDGET A. HEANUE, R. N.
MARY A. MacDONALD, R. N.

Contagious Disease Nurses
ANNA B. DRISCOLL, R. N.
ANNA E. MAGUIRE, R. N.

JENNIE T. MALONE, R. N.

*Resigned.

†Transferred.

REPORT OF THE BOARD OF HEALTH

To the Honorable, the City Council of the City of Cambridge, Mass.:

In compliance with General Laws, Chapter III., Section 28, the Board of Health submits herewith its annual report for the year ending December 31, 1921.

This year has been a remarkable one from the public health standpoint, in that the general death rate is the lowest in the history of the city. The annexed reports on diseases dangerous to the public health, vital statistics, and Infant Mortality, show in detail the remarkable standing of our community.

The Board of Health is revising its Rules and Regulations, inasmuch as there has been no revision since 1910, and it is expected that this work will have been completed during the coming year.

It is appreciated that retrenchment in expenditures is necessary, and you may rest assured that the Health Department is endeavoring to run its continually increasing fields of work with reasonable economy.

In closing, the Board desires to take this opportunity to officially extend its thanks to the employees of the Department for their conscientious labors, and loyal co-operation, in carrying out the many difficult tasks performed by the Department. It also wishes to express its appreciation to the Mayor, City Council, Medical and Nursing Professions, local newspapers, the various civic organizations, and the public in general, who have in any way aided in protecting the public health, and thereby accomplishing the end for which the Department is in existence.

Respectfully submitted,

ELIE H. LaPIERRE, Chairman.

JOSEPH M. WADDEN, M. D.

JEREMIAH S. SULLIVAN, Esq.

Board of Health.

EXPENDITURES

EXPENDED FOR SALARIES

January 1—December 31, 1921

Medical Inspector	\$2,400 00
Bacteriologist	1,170 00
Clerk	2,033 06
Secretary	576 00
Social Worker	1,320 00
Stenographers	1,117 20
Temporary Clerk	900 99
Inspector of Provisions	2,439 42
Sanitary Inspectors	6,812 99
Plumber and Housing Inspector	2,147 57
Drivers	2,385 35
School Nurses	11,510 46
School Physicians	4,500 35
Infant Welfare Nurses	2,974 69
Contagious Nurses	2,522 47
Culture Collector	225 00
Inspector of Slaughtering	1,055 00
Dispensary Physician	576 00
Dispensary Nurses	2,363 20
Miscellaneous (Laborers)	52 00
	<hr/>
	\$49,081 75

EXPENDED FOR GENERAL EXPENSES

January 1—December 31, 1921

Board and care:

Diphtheria	\$4,665 25
Measles	87 50
Ophthalmia Neonatorum	217 50
Scarlet Fever	12,101 50
Suppurative Conjunctivitis	7 50
	<hr/>
	\$17,079 25

Reimbursement of other cities and towns, and of the Commonwealth:—

Diphtheria	943 00
Measles	19 50
Scarlet Fever	1,355 85
Tuberculosis	1,259 21
	<hr/>
	\$3,577 56
Printing and Binding	\$468 68
Postage	287 93
Advertising and Posting	31 36
Transportation of Persons	2,025 74
Cartage and Freight	
Rent, Taxes and Water	285 40
Communication	301 09
Motor Vehicles, Repairs and Care	487 66
Care of Persons (See detailed account above)	
Fees, Service of Venires, etc.	48 60
Office Supplies	975 24
General Plant (Services)	44 00
Food and Ice	131 75
Medical, Surgical and Laboratory	319 53
Motor Vehicle	729 12

Chemical and Disinfectants	185 43	
General Plant (Supplies)	119 31	
School Inspection	137 76	
Infant Welfare	96 48	
		<hr/>
		\$27,331 89

EXPENDED FOR TUBERCULOSIS HOSPITAL

January 1—December 31, 1921

Salaries :

Physician	\$1,349 94	
Interne	609 50	
Matron	1,219 40	
Nurses	5,327 57	
Cook	793 93	
Assistant Cooks	770 29	
Dishwashers	971 00	
Laundresses	1,100 00	
Maids	848 00	
Scrubwomen	325 71	
Scrubmen	535 99	
Engineer	1,932 29	
Firemen	4,985 71	
Caretaker	848 00	
Assistant Caretaker	477 00	
Miscellaneous (Vacations)	218 67	
		<hr/>
		\$22,313 00
Postage	11 28	
Cartage and Freight	17 21	
Light and Power	78 59	
Communication	109 37	
Medical Orthopedic	10 00	
Extermination of Insects	1 20	
General Plant Equipment	139 28	
Furniture and Fittings	200 00	
Office Supplies	37 57	
Food and Ice	19,785 89	
Fuel	8,005 09	
Medical, Surgical and Laboratory	1,666 10	
Laundry, Cleaning and Toilet	484 39	
Agricultural	145 22	
General Plant Supplies	1,141 75	
Recreational	85 01	
Educational and Recreational	45 60	
Medical, Surgical and Laboratory Equipment	34 45	
		<hr/>
		\$31,998 00
		<hr/>
		\$54,311 00

EXPENDED FOR INSPECTION OF MILK AND VINEGAR

January 1—December 31, 1921

Salaries :

Inspector	\$1,200 00	
Collector of Samples	1,707 80	
		<hr/>
		\$2,907 80
Postage	25 10	
Transportation of Persons	30 00	
Fees, Services of Venires, etc.	12 00	

Office Supplies	51 93	
Medical, Surgical and Laboratory Supplies	137 69	
Motor Vehicle Supplies	418 58	
	<hr/>	\$3,583 10

EXPENDED FOR DENTAL CLINIC

January 1—December 31, 1921

Salaries :

Dentists	\$3,426 85	
Assistant	795 00	
	<hr/>	\$4,221 85
Medical, Surgical and Laboratory Supplies	106 36	
	<hr/>	\$4,328 21

BOARD OF HEALTH RECEIPTS

January 1—December 31, 1921

Contagious Diseases (Including all but Tuberculosis)

State	\$1,687 00	
Cities and Towns	1,530 00	
Individuals	1,303 00	
	<hr/>	\$4,520 00

Tuberculosis

State	\$8,806 86	
Cities and Towns	9,483 00	
U. S. Public Health Service (Veterans)	9,981 00	
Individuals	2,089 79	
Subsidy	6,254 46	
	<hr/>	\$36,615 11
		<hr/>
		\$41,135 11

VITAL STATISTICS

DEATH RATE PER 1,000 LIVING FROM ALL CAUSES

POPULATION 110,444 JULY 1, 1921

1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
13.40	13.69	13.42	13.39	13.94	14.52	17.99	13.14	15.06	12.56
14.25	14.40	14.04	14.12	14.59	14.63	20.55	12.24	14.26	11.94

The upper row gives the death rate of all deaths in Cambridge; that is, it includes the non-residents that died in the city, but excludes Cambridge residents who died outside the city. The lower row of rates includes Cambridge residents who died outside of the city, and excludes non-residents who died in Cambridge.

The figures given for the population are taken from the Federal Census of July 1, 1921. The mean annual death rate for ten years, 1912 to 1921, inclusive, is 14.11. This includes non-residents who died in the city. The mean annual death rate, excluding non-residents, but including Cambridge residents who died outside the city, is 14.50.

Table A gives causes of death by ages, in accordance with the International Classification of Causes of Deaths, of those persons who died in Cambridge, and includes non-residents.

Table B gives number of cases reported, the morbidity per 1,000 living, death rate per 1,000 living, including residents who died outside the city, and death rate per 100 cases reported of diphtheria, scarlet fever, and typhoid fever for the years 1912 to 1921, inclusive. If death rate per 1,000 living, computed from deaths in the city only, varies from that given in the table, the fact is stated in footnote.

SIMON B. KELLEHER, M. D.,
Medical Inspector.

TABLE A—(Continued)

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total Over 5		Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total Over 5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
IX. Diseases of Bone and Organs of Locomotion																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
146.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

TABLE A—(Continued)

CAUSES OF DEATH		Total																		Total																		
		Under 1	1 to 2	2 to 3	3 to 4	4 to 5	Under 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90																				
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F					
XIII. Violence (Continued)																																						
168.	Absorption of Deleterious Gases (Confl'n except'd)																																					
169.	Accidental Drowning																																					
170.	Traumatism by Fire Arms																																					
171.	Traumatism by Cutting Instruments																																					
172.	Traumatism by Fall																																					
173.	Traumatism in Mines and Quarries																																					
174.	Traumatism by Machines																																					
175.	Traumatism by Other Crushing, (Vehicles, Land-slides, Etc.)																																					
176.	Injuries by Animals																																					
177.	Starvation																																					
178.	Excessive Cold																																					
179.	Effects of Heat																																					
180.	Lightning																																					
181.	Electricity (except Lightning)																																					
182.	Homicide by Firearms																																					
183.	Homicide by Cutting Instruments																																					
184.	Homicide by Other Means																																					
185.	Fractures, cause not specified																																					
186.	Other External Violence																																					
XIV. Ill-Defined Diseases																																						
187.	Ill-defined Organic Disease																																					
188.	Sudden Death																																					
189.	Non-specified or Ill-defined Causes of Death																																					
Totals		117	83	13	12	3	5	4	2	4	4	141	106	16	18	12	9	13	9	41	47	46	52	61	70	103	85	115	111	82	113	40	65	9	14	539	592	1,378
Stillborn		59	57									59	57																							116		
Totals																																				1,494		

Non-residents.....244
Stillborn.....11
Cambridge residents died outside city.....255
176

TABLE B.

	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	
Diphtheria	Number of cases reported.....	264	219	233	358	375	487	399	249	220	227
	Morbidity per 1,000 living.....	2.45	2.35	2.15	3.28	3.42	4.42	3.58	2.22	1.09	2.00
	Death-rate per 1,000 living.....	0.24	0.15	0.18	0.35	0.31	0.31	0.26	0.124	.727	1.72
	Case death-rate, percentage....	9.85	7.31	8.58	10.61	8.80	6.98	7.268	5.62	8.63	8.37
Scarlet Fever	Number of cases reported.....	157	129	332	379	172	163	60	189	273	258
	Morbidity per 1,000 living.....	1.47	1.20	3.07	3.48	1.57	1.47	0.53	1.69	2.53	2.33
	Death-rate per 1,000 living.....	0.02	0.18	0.05	1.83	0.82	0.07	0.009	0.017	.072	.001
	Case death-rate, percentage....	1.27	1.55	1.51	5.28	5.24	4.92	1.69	1.06	2.87	.751
Measles	Number of cases reported.....	1015	1085	703	871	454	1294	1413	191	910	908
	Morbidity per 1,000 living.....	9.54	10.08	6.50	7.99	6.38	11.69	12.68	1.69	8.27	8.22
	Death-rate per 1,000 living.....	0.09	0.11	0.13	0.05	0.06	0.14	0.28	0.017	1.11	.045
	Case death-rate, percentage....	0.99	1.11	1.99	0.57	1.54	1.24	2.19	1.05	.142	.505
Typhoid Fever	Number of cases reported.....	55	105	51	35	26	33	23	14	17	12
	Morbidity per 1,000 living.....	0.52	0.98	0.47	0.32	0.24	.298	0.206	0.124	.154	.108
	Death-rate per 1,000 living.....	0.05	0.12	0.03	0.03	.018	0.05	0.026	0.026	.027	.009
	Case death-rate, percentage....	9.09	12.38	5.88	8.57	7.69	15.15	13.043	21.42	17.65	8.33

The death rate, per 1,000, for those dying in Cambridge in 1921 was, for diphtheria, 0.108; scarlet fever, 0.000.

TABLE C.

Death Rates per 1,000 living	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
Cancer.....	0.80	0.77	0.97 1.04	1.09 1.13	0.985 1.12	1.16 1.38	1.13 1.256	0.918 1.29	1.29 1.71	1.32 1.54
Diarrheal Diseases.....	1.05	1.03	0.94 0.79	0.72 0.62	.794 .701	.713 .605	.753 .655	.445 .347	.627 .591	.353 .335
Whooping Cough.....	0.07	0.11	0.09 0.09	0.12 0.12	.146 .118	.063 .063	.314 .296	.115 .115	.227 .209	.135 .099
Bronchitis.....	0.31	0.23	0.33 0.32	0.32 0.32	.191 .191	.172 .172	.493 .493	.142 .152	.163 .163	.126 .135
Pneumonia.....	1.94	1.95	1.83 1.66	1.61 1.42	1.66 1.63	1.57 1.45	1.489 1.337	1.20 1.27	1.89 1.87	1.01 1.02
Pulmonary Tuberculosis.....	1.30	1.34	1.25 1.67	1.38 1.84	1.43 1.74	1.35 1.90	1.247 1.982	1.06 1.57	.918 1.18	.806 1.08

In this table the upper number is that derived from the number of deaths of Cambridge residents who died within or without the city. Non-residents dying in Cambridge are excluded.
The lower number is derived from the actual number of deaths in the city and includes non-residents but excludes Cambridge residents who died outside of Cambridge.

TABLE D—(Continued)

	Diphtheria	Scarlet Fever	Measles	Chicken Pox	Whooping Cough	German Measles	Mumps	Typhoid Fever	Pulmonary Tuberculosis	Other Forms Tuberculosis	Lobar Pneumonia	Cerebro Spinal Meningitis	Ophthalmia Neonatorum	Suppurative Conjunctivitis	Septic Sore Throat	Influenza	Amebic Dysentery	Tetanus	Trachoma	Malaria	Anterior Poliomyelitis	Actinomycosis	Encephalitis Lethargica	Totals
Week ending:																								
July	2	4	9	8	5	2	2	1	8	2	0	0	1	0	0	0	0	0	0	0	0	0	0	44
2..	3	2	5	2	19	0	2	0	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	39
9..	6	0	10	4	5	0	1	0	4	1	0	0	2	0	0	0	0	1	0	0	0	0	0	28
16..	4	0	4	2	12	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
23..	1	0	1	4	6	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
30..	3	0	3	0	11	0	0	3	4	1	0	0	0	0	0	0	0	0	0	0	1	0	0	21
6..	3	3	3	1	11	0	0	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	28
13..	2	0	2	1	6	0	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	16
20..	2	3	3	1	3	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	16
27..	2	0	2	0	1	0	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	16
3..	4	2	0	1	3	0	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	22
10..	3	2	1	2	5	1	1	0	5	1	0	0	0	0	1	0	0	0	0	0	0	0	0	19
17..	3	2	0	1	5	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	19
24..	4	1	1	1	7	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	26
1..	4	2	1	2	5	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	27
8..	2	2	1	3	10	0	0	0	3	1	2	0	0	1	0	0	0	0	0	0	0	0	0	17
15..	4	3	1	0	3	0	0	0	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	22
22..	3	3	1	1	0	0	0	0	8	1	2	0	0	0	0	0	0	0	0	0	0	0	0	27
29..	6	6	0	1	0	1	0	0	5	1	2	0	0	0	0	0	0	0	0	0	0	0	0	24
5..	6	7	0	2	5	0	0	0	6	0	3	0	0	0	0	1	4	0	0	0	0	0	0	17
12..	4	2	0	4	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	26
19..	5	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
26..	6	3	0	4	2	1	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	32
3..	1	8	1	1	3	0	0	0	2	0	6	0	0	0	0	1	2	0	0	0	0	0	0	34
10..	4	7	0	8	3	0	0	0	1	0	5	0	0	0	0	1	1	0	0	0	0	0	0	36
17..	5	6	1	13	3	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	36
24..	8	4	1	7	4	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	23
31..	2	3	4	7	0	0	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	23
Totals....	227	258	908	638	411	43	188	12	202	38	153	5	23	10	7	38	1	2	3	0	4	1	2	23174

TABLE E.

Ward		Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	T'ls.
DIPHTHERIA	1	1	1	0	0	0	0	2	1	0	1	1	0	7
	2	2	0	0	0	0	0	0	2	1	0	0	0	5
	3	1	1	0	3	2	0	1	3	2	3	5	4	25
	4	3	2	1	4	5	7	2	1	1	0	0	2	28
	5	0	2	1	4	3	4	2	0	2	1	0	1	20
	6	2	1	2	9	6	5	0	0	1	2	1	2	31
	7	3	4	1	1	5	1	4	1	2	2	1	2	27
	8	1	1	0	2	1	4	0	1	0	0	0	1	11
	9	1	1	1	2	1	2	1	0	0	1	6	0	16
	10	0	1	0	0	2	1	2	3	7	2	4	2	24
	11	2	3	1	7	2	5	1	0	0	5	2	5	33
Total		16	17	7	32	27	29	15	12	16	17	20	19	227
SCARLET FEVER	1	0	1	3	3	1	2	0	0	0	0	1	0	11
	2	0	0	0	11	4	1	1	0	0	1	3	0	21
	3	1	2	4	3	8	1	0	2	4	1	3	3	32
	4	2	0	0	3	6	0	2	1	1	1	2	2	20
	5	7	0	4	1	6	0	0	0	1	3	2	5	29
	6	3	0	4	5	5	1	1	2	0	0	0	1	22
	7	3	2	6	0	1	1	0	1	0	0	2	0	16
	8	6	0	3	2	1	1	0	0	1	0	1	3	18
	9	6	2	2	3	2	0	0	0	0	1	1	2	19
	10	3	5	2	7	2	1	0	0	0	0	0	2	22
	11	2	5	5	5	6	2	1	1	0	10	7	4	48
Total		33	17	33	43	42	10	5	7	7	17	22	22	258
MEASLES	1	0	5	1	2	1	2	0	1	1	0	0	1	14
	2	0	0	0	1	3	0	2	1	1	0	0	1	9
	3	2	1	3	3	0	2	2	5	0	0	0	1	19
	4	1	8	3	4	0	2	0	0	0	0	0	0	18
	5	0	5	2	6	1	2	2	1	0	0	0	0	19
	6	15	63	86	33	6	1	1	3	0	0	0	0	208
	7	30	60	100	49	13	0	5	0	0	1	0	1	259
	8	2	4	41	50	21	12	1	0	0	0	1	1	133
	9	1	2	6	21	33	30	0	0	1	2	0	2	98
	10	2	3	0	17	37	16	4	0	0	0	0	2	81
	11	1	3	5	2	16	15	8	0	0	0	0	0	50
Total		54	154	247	188	131	82	25	11	3	3	1	9	908
CHICKEN POX	1	12	6	10	3	0	2	1	0	1	1	0	0	36
	2	13	21	14	0	0	0	2	1	0	1	0	0	52
	3	14	9	7	0	5	8	1	0	0	2	2	1	49
	4	7	12	8	9	2	5	4	0	2	0	0	3	52
	5	6	6	6	2	3	0	0	0	0	3	6	12	44
	6	37	16	7	4	1	3	0	0	0	1	2	7	78
	7	32	19	9	11	6	1	0	0	0	0	0	4	82
	8	19	3	5	1	3	1	1	0	0	0	0	0	33
	9	14	13	34	14	8	10	0	1	0	0	1	6	101
	10	2	12	25	10	25	8	1	0	1	0	1	2	87
	11	4	3	0	5	6	4	1	0	0	0	0	1	24
Total		160	120	125	59	59	42	11	2	4	8	12	36	638

TABLE E—Continued

Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	T'ls.
WHOOPIING COUGH	1	0	0	1	0	0	1	0	0	0	0	0	2
	2	1	0	5	1	0	0	0	0	0	0	0	7
	3	0	15	3	1	0	0	1	1	0	0	1	22
	4	3	7	7	9	0	0	3	7	0	2	0	38
	5	8	2	1	5	2	0	0	1	1	0	0	20
	6	4	10	14	9	7	5	8	7	7	0	1	72
	7	4	1	4	0	3	4	24	12	7	0	0	59
	8	0	0	5	11	2	0	0	3	0	0	0	21
	9	5	0	9	10	5	3	0	1	0	1	9	43
	10	1	14	18	34	9	1	6	2	0	1	7	93
	11	1	2	1	2	3	3	2	0	5	15	0	34
Total	27	51	68	82	31	17	44	31	23	18	9	10	411
GERMAN MEASLES	1	0	1	0	0	0	0	0	0	0	0	0	1
	2	0	1	2	1	1	2	0	0	0	0	0	7
	3	1	1	0	1	1	0	0	0	0	0	0	4
	4	0	0	0	0	0	1	0	0	0	0	0	1
	5	1	0	1	0	1	0	0	0	0	0	0	3
	6	0	0	3	0	1	0	0	0	1	0	0	5
	7	0	0	4	0	0	0	0	0	0	1	0	5
	8	0	0	1	1	1	1	0	0	0	0	0	4
	9	1	1	0	0	1	5	0	0	1	0	0	9
	10	1	0	0	0	0	0	0	0	0	0	0	1
	11	0	0	0	1	1	1	0	0	0	0	0	3
Total	4	4	11	4	7	10	0	0	1	1	1	0	43
MUMPS	1	1	1	1	1	3	7	0	0	0	0	0	14
	2	1	2	1	3	5	6	4	0	0	0	0	22
	3	8	3	6	10	12	7	0	0	0	0	0	56
	4	2	2	4	6	0	3	0	0	0	0	0	17
	5	0	1	2	4	4	1	0	0	1	0	1	14
	6	2	2	4	2	0	2	0	1	0	0	0	13
	7	1	1	1	2	0	1	0	0	2	0	1	9
	8	2	0	3	0	1	0	0	0	0	0	0	6
	9	9	6	5	2	3	1	0	0	0	0	0	26
	10	0	4	3	0	0	0	0	0	1	0	0	8
	11	0	1	1	0	0	0	0	1	0	0	0	3
Total	26	33	31	30	28	28	4	2	4	0	2	0	188
TYPHOID FEVER	1	1	0	0	0	0	0	0	0	0	2	0	3
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	1	0	0	0	0	0	0	0	0	1
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	1	0	0	0	1
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	1	0	1
	8	0	0	0	0	0	0	0	0	0	0	0	2
	9	0	0	0	0	0	0	1	0	0	0	0	1
	10	0	0	0	0	0	0	0	0	1	0	0	1
	11	0	0	0	0	0	0	1	0	0	1	0	2
Total	1	0	1	0	0	0	1	3	1	1	4	0	12

TABLE E—Continued

Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	T'ls.
PUL. TUBERCULOSIS	1	0	0	0	3	0	1	2	0	1	1	0	8
	2	1	0	3	1	0	0	1	1	0	0	0	7
	3	3	1	1	2	4	6	3	4	1	1	0	28
	4	4	2	2	1	1	2	5	0	1	2	0	21
	5	1	1	4	1	1	4	1	3	1	3	1	22
	6	1	3	4	1	3	2	1	1	1	1	2	21
	7	1	0	6	1	2	4	1	2	2	1	2	25
	8	0	1	3	3	1	1	0	2	5	2	2	20
	9	0	0	2	4	2	1	2	0	1	1	0	13
	10	6	1	1	1	1	0	0	0	2	2	1	16
	11	0	1	1	1	3	2	2	2	1	4	2	21
Total	17	10	27	19	18	23	18	15	16	18	10	11	202
TUBERCULOSIS, OTHER FORMS	1	0	1	0	0	0	1	0	0	0	0	0	2
	2	0	0	0	0	1	0	0	1	0	0	1	3
	3	0	0	1	2	0	0	0	1	0	0	0	4
	4	2	0	0	3	0	0	0	0	0	2	0	8
	5	0	0	1	0	0	0	0	0	1	1	0	3
	6	0	1	1	0	0	0	0	0	1	1	0	4
	7	0	1	1	0	0	1	1	0	0	0	0	4
	8	0	0	0	0	0	1	0	1	0	0	0	2
	9	0	1	0	0	1	0	1	0	0	0	0	3
	10	1	1	1	0	0	1	0	0	0	0	0	4
	11	0	0	0	0	0	0	1	0	0	0	0	1
Total	3	5	5	5	2	4	3	3	2	4	1	1	38
LOBAR PNEUMONIA	1	1	1	0	1	1	1	0	1	1	0	1	9
	2	0	1	1	2	1	0	0	0	0	0	1	8
	3	4	2	4	2	2	3	0	0	1	0	3	24
	4	5	2	0	2	1	0	0	0	0	1	2	14
	5	2	1	1	3	1	1	0	0	0	0	1	11
	6	1	3	4	1	5	0	0	0	0	1	2	18
	7	0	2	4	4	1	2	1	1	1	3	0	22
	8	3	2	3	1	1	1	0	0	0	2	1	16
	9	3	1	3	3	0	1	0	0	0	0	2	16
	10	2	0	1	0	1	1	0	0	0	0	1	7
	11	4	1	1	1	0	0	0	0	0	1	0	8
Total	25	16	22	20	14	10	1	2	3	8	15	17	153
C. S. MENINGITIS	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	1	0	1
	3	0	1	0	0	0	0	0	1	0	0	0	2
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	1	1	0	0	2
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	2	1	1	0	0	5

TABLE E—Continued

Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	T'ls.
OPHTHALMIA NEO.	1	0	0	0	0	3	0	0	0	0	0	0	3
	2	0	0	0	0	0	0	1	0	0	0	0	1
	3	1	1	1	0	0	0	1	0	0	1	0	5
	4	1	0	0	0	0	0	0	0	1	0	0	2
	5	0	0	0	0	0	0	1	1	0	0	0	2
	6	0	1	0	1	0	0	0	0	0	0	0	2
	7	1	0	0	0	0	0	0	0	0	0	0	1
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	1	1	0	0	0	0	0	0	1	0	3
	10	0	0	0	0	0	0	1	0	0	0	0	2
	11	0	0	0	1	0	0	1	0	0	0	0	2
Total	3	3	2	2	3	0	5	1	0	3	1	0	23
SUPPURATIVE CONJ.	1	0	0	0	0	0	0	0	0	1	0	0	1
	2	0	0	1	0	0	0	0	0	1	1	0	3
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0
	6	0	1	0	0	0	1	0	0	0	0	0	2
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	2	0	0	0	0	0	0	2
	10	0	0	1	0	0	0	0	0	0	0	1	2
	11	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	2	0	2	1	0	0	0	2	1	1	10
SEPTIC S. THROAT	1	0	1	0	0	0	0	0	0	1	0	0	2
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	1	0	0	1
	5	0	0	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	1	0	0	0	0	0	0	1
	8	1	0	0	0	0	0	0	0	0	0	0	1
	9	1	0	0	0	0	0	0	0	0	0	0	1
	10	0	0	1	0	0	0	0	0	0	0	0	1
	11	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	1	0	1	0	0	0	0	2	0	0	7
INFLUENZA	1	2	0	0	0	0	0	0	0	0	0	0	2
	2	0	0	1	0	0	0	0	0	0	0	0	1
	3	0	0	1	1	0	0	0	0	0	1	0	3
	4	4	1	0	0	1	0	0	0	0	0	1	7
	5	2	0	0	0	1	0	0	0	0	0	2	5
	6	1	0	1	0	0	0	0	0	0	4	0	6
	7	0	0	0	0	0	0	0	0	0	0	1	1
	8	0	0	1	0	0	0	0	0	0	0	1	2
	9	2	1	1	3	0	0	0	0	0	1	0	8
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	1	0	0	2	0	0	0	0	0	0	0	3
Total	12	2	5	6	2	0	0	0	0	0	6	5	38

TABLE E—Continued

Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	T'ls.
AMEBIC DYS.	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	1	0	0	0	0	0	0	0	1
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	1	0	0	0	0	0	0	0	1
TETANUS	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	1	0	0	0	0	1
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	1	0	0	0	1
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	1	0	1	0	0	0	2
TRACHOMA	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	1	0	0	1
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	1	0	1
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	1	0	0	0	0	1
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	1	0	1	0	1	0	3
ANT. POLIOMYELITIS	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	1	0	0	0	1
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	1	0	0	0	1
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	1	0	0	0	0	1
	9	0	0	0	0	0	0	0	1	0	0	0	1
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	1	3	0	0	0	4

TABLE E—Continued

Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	T'ls.
ACTINOMYCOSIS	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	1	0	0	0	0	0	0	1
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	0	0	0	0	0	1
ENC. LETHARGICA	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	1	0	0	0	0	0	0	0	0	1
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	1	0	0	0	1
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	0	0	0	0	1	0	0	0	2

TABLE F

MORBIDITY DISTRIBUTION		Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90	Total
Diphtheria	M	4	4	5	11	11	46	13	0	3	3	2	0	..	..	..	..	102
	F	2	3	7	8	15	49	22	8	6	3	1	1	..	..	..	..	125
	P	6	7	12	19	26	95	35	8	9	6	3	1	..	..	..	..	227
Scarlet Fever	M	2	1	6	12	12	50	22	6	7	1	1	..	..	..	..	..	120
	F	1	2	8	11	20	57	17	6	11	4	1	..	..	..	..	..	138
	P	3	3	14	23	32	107	39	12	18	5	2	..	..	..	..	..	258
Pulmonary Tuberculosis	M	2	1	..	..	..	4	5	7	50	17	16	9	4	..	..	..	115
	F	1	..	1	..	1	3	4	8	36	10	13	3	5	2	..	..	87
	P	3	1	1	..	1	7	9	15	86	27	29	12	9	2	..	..	202
Other Forms Tuberculosis	M	2	2	3	1	..	2	2	2	5	2	..	1	..	..	..	..	22
	F	..	1	1	1	1	2	2	2	4	1	1	..	..	..	..	..	16
	P	2	3	4	2	1	4	4	4	9	3	1	1	..	..	..	..	38
Measles	M	15	31	31	48	53	234	20	3	3	1	..	..	..	..	..	..	439
	F	11	47	31	57	40	248	18	2	11	2	..	2	..	..	..	..	469
	P	26	78	62	105	93	482	38	5	14	3	..	2	..	..	..	..	908
Chicken Pox	M	21	22	26	26	27	177	21	3	5	1	..	..	..	..	..	..	329
	F	17	19	20	16	35	167	25	4	4	2	..	..	..	..	..	..	309
	P	38	41	46	42	62	344	46	7	9	3	..	..	..	..	..	..	638
Whooping Cough	M	18	23	22	24	20	82	4	..	..	..	..	..	..	..	..	..	193
	F	24	21	18	34	23	90	8	..	..	..	..	..	..	..	..	..	218
	P	42	44	40	58	43	172	12	..	..	..	..	..	..	..	..	..	411
Mumps	M	3	2	2	2	5	56	11	10	9	1	1	1	1	..	..	..	104
	F	..	2	1	5	1	46	18	3	7	1	..	..	..	..	..	..	84
	P	3	4	3	7	6	102	29	13	16	2	1	1	1	..	..	..	188
Lobar Pneumonia	M	1	2	4	1	2	13	7	12	15	7	13	6	7	1	1	..	92
	F	..	3	2	2	2	13	2	..	8	4	4	7	7	4	3	..	61
	P	1	5	6	3	4	26	9	12	23	11	17	13	14	5	4	..	153
Influenza	M	..	1	..	..	1	..	3	1	4	3	1	4	1	..	..	..	19
	F	1	..	..	..	..	..	1	1	4	3	3	4	2	..	..	..	19
	P	1	1	..	..	1	..	4	2	8	6	4	8	3	..	..	..	38
German Measles	M	4	1	1	1	1	8	1	..	1	..	..	..	..	..	..	..	18
	F	1	2	1	1	1	13	6	..	..	..	..	..	..	..	..	..	25
	P	5	3	2	2	2	21	7	..	1	..	..	..	..	..	..	..	43

TABLE F — (Continued)

MORBIDITY DISTRIBUTION		Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90	Total
Encephalitis Lethargica	M F P	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	2 2	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	2 2
Ophthalmia Neonatorum	M F P	12 11 23	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	12 11 23
Typhoid Fever	M F P	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. 1	1 .. 1	.. 1 1	.. 1 1	3 3 6	.. 2 2	1 .. 1	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	5 7 12
Suppurative Conjunctivitis	M F P	3 3 6	.. .. ..	1 .. 1	.. .. 1	1 1 1	.. .. ..	.. .. ..	1 .. 1	.. .. ..	1 .. 1	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	7 3 10
Septic Sore Throat	M F P	.. .. ..	1 .. 1	.. .. ..	.. .. 1	1 .. 1	.. .. ..	.. .. ..	1 .. 1	1 1 2	.. 1 1	.. .. ..	.. .. ..	.. 1 1	.. .. ..	.. .. ..	.. ..	4 3 7
Anterior Pollomyelitis	M F P	.. 1 1	.. .. ..	.. 1 1	.. .. ..	.. .. ..	.. .. 1	.. 1 1	.. .. ..	1 .. 1	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	1 3 4
Cerebral Spinal Meningitis	M F P	1 1 2	1 1 1	.. .. ..	.. .. ..	.. .. 1	1 .. 1	.. .. ..	.. .. ..	.. .. ..	.. 1 1	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	3 2 5
Trachoma	M F P	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. 1	1 .. 1	.. .. ..	1 .. 1	1 .. 1	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	3 .. 3
Tetanus	M F P	.. .. ..	.. .. ..	.. .. ..	.. .. 1	1 1 1	.. .. ..	.. .. 1	1 .. 1	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	1 1 2
Actinomycosis	M F P	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. 1	1 .. 1	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	1 .. 1
Ambeic Dysentery	M F P	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	1 1	.. ..	.. .. ..	.. .. ..	.. .. ..	.. ..	1 .. 1

DISEASES DANGEROUS TO THE PUBLIC HEALTH

From a Health Officer's standpoint, this has been one of the best years that the city of Cambridge has ever had. The Mortality Rate is the lowest that we have experienced. A factor which had its influence upon the death rate, I believe to be the mild winter which we had.

TYPHOID FEVER

Only twelve cases of Typhoid were reported this year, and one death. This is the smallest number of cases that Cambridge has ever had.

DIPHTHERIA

In the spring of this year, the Schick Test was begun in the schools. Circulars were printed and distributed in all the schools, telling of the advantages of the Test and inoculation against Diphtheria. As this Test and immunization is entirely voluntary, slips granting permission were issued to the children to have the parents sign. On these slips permission was only given for the Test. It was the plan of the Board of Health to only do the Test, and refer the children, if positive, to the family physician. Several hundred children were tested in the schools, but very few, not a dozen, followed out the inoculation. It is recommended that new permission forms be printed, giving this Department permission to follow up the positive tests with the inoculations.

SCARLET FEVER

This year we have a decrease in the number of cases and number of deaths. There were only two deaths from Scarlet Fever this year, both occurring in Cambridge.

TUBERCULOSIS

This has been the banner year of all in regard to Tuberculosis. We have the lowest rate this year that Cambridge has experienced.

SIMON B. KELLEHER, M. D.

Medical Inspector.

BACTERIOLOGICAL LABORATORY

The following report of the work done in your Bacteriological Laboratory for the year 1921, is respectfully submitted:

DIPHTHERIA

	POSITIVE		NEGATIVE		No Growth	Totals
	Diagnosis	Release	Diagnosis	Release		
January.....	8	2	95	11	3	119
February.....	18	2	170	79	1	210
March.....	23	3	254	24	0	304
April.....	11	5	108	26	5	155
May.....	23	2	88	20	1	134
June.....	16	2	56	46	2	122
July.....	6	0	36	13	1	56
August.....	3	1	16	14	1	35
September.....	6	0	44	12	4	66
October.....	9	2	48	17	4	80
November.....	9	3	147	16	4	179
December.....	8	3	107	25	1	144
Totals.....	140	25	1169	243	27	1604

	TUBERCULOSIS			TYPHOID			Other Examinations	Totals
	Positive	Negative	Total	Positive	Negative	Total		
January.....	13	45	58	1	4	5	0	63
February.....	39	71	110	1	8	9	0	119
March.....	65	156	221	1	18	19	0	240
April.....	13	59	72	0	5	5	1	78
May.....	40	63	103	0	8	8	1	112
June.....	14	45	59	0	9	9	0	68
July.....	18	30	48	1	3	4	6	58
August.....	19	39	58	2	16	18	4	80
September.....	15	40	55	1	9	10	6	71
October.....	11	36	47	1	4	5	2	54
November.....	12	45	57	2	3	5	3	65
December.....	9	26	35	1	5	6	1	42
Totals.....	268	655	923	11	92	103	24	1050

The total number of examinations for the year was 2654.

WALTER C. FEELEY, M. D.
Bacteriologist.

REPORT OF CAMBRIDGE TUBERCULOSIS HOSPITAL FOR YEAR ENDING 1921

I respectfully submit the following report of the work done at the Cambridge Tuberculosis Hospital during the year 1921.

On January 1, 1921, there remained in the hospital from the previous year 55 cases. During the present year we admitted 142 cases, and re-admitted 34 cases, making a total of 231 cases treated during the present year.

RESIDENTS

Of the 55 patients remaining from the previous year, 41 were patients of 1920; 7 of 1919; 3 of 1918; 3 of 1917; 1 of 1913.

1913. A case of advanced phthisis who is still resident.

1917. Three; advanced cases and are residents.

1918. Three; all chronic phthisis; one gradually failed and died; two are still residents.

1919. Seven; all chronic phthisis; two gradually failed and died; two left improved; and three are still residents.

1920. Forty-one; all chronic phthisis; sixteen gradually failed and died; eight left unimproved; ten left improved; seven are still residents.

RE-ADMISSIONS

Thirty-four cases were re-admitted this year, as against the same number of last year. One was a patient of 1910, two of 1914, two of 1916, two of 1917, one of 1918, six of 1919, fifteen of 1920, and five of 1921.

Incipient. Seven; these were patients who had been at the hospital before; improved and gone to work; they had broken down slightly in health, and returned.

Moderately Advanced. Ten.

Advanced. Seventeen. Total, thirty-four.

Ten cases died; seven left improved; three left unimproved; one discharged as a negative case, and thirteen are still resident.

NEW CASES

During the year we admitted 142 new cases as against 164 cases of last year.

STAGES. Sixteen patients were admitted as incipient cases; twelve cases as moderately advanced; and one hundred and six as

advanced cases. Two cases of acute miliary Tuberculosis. Four cases were non-tubercular. Two without any history left hospital within 24 hours.

SEX. One hundred and fifteen males and twenty-five females were admitted as against 118 males and 61 females in the year 1920. Two without history left hospital within 24 hours.

Age.....	1-10	10-20	20-30	30-40	40-50	50-60	60-70
	5	11	64	27	20	10	3

Two without history.

The highest percentage being between twenty and thirty.

Social Status. 48 were married; 86 were single; 6 were wid-

SOCIAL STATUS. 48 were married; 86 were single; 6 were widowed; two without history left hospital within 24 hours.

NATIVITY. 65 were foreign; 75 were born in the United States; 46 in Massachusetts; and 20 in Cambridge.

NATIONALITY. The majority of the patients were Americans.

45 Americans	5 Armenian	1 Norwegian
14 Irish	4 Swedish	2 English
10 Italians	4 Negro	2 Polish
7 Canadian	3 Portuguese	2 Greek
5 Russian	3 Scotch	3 German
	2 without any history.	

OCCUPATION.

30 Housewives	3 Bartenders	1 Editor
13 Laborers	2 Cooks	1 Gardener
10 Students	2 Piano Workers	1 Letter Carrier
5 Rubber Workers	2 Printers	1 Brakeman
5 Clerks	2 Plumbers	1 Watchmaker
5 Machinists	2 Butchers	1 Junk Dealer
4 Carpenters	2 Shoe Workers	1 Fruit Dealer
4 Bookkeepers	2 Iron Workers	1 Pressman
4 Mill Workers	1 Nurse	1 Saleslady
4 Seamen	1 Physician	1 Waiter
4 Salesmen	1 Candy Maker	1 Tailor
3 Chauffeurs	1 Actor	1 Merchant

SOURCE. Thirty-two gave histories of one or more cases in immediate family. Four gave histories of contact in some way or other. In the remaining 106 cases no source of contagion could be established.

1	55	64	59	59	52	69	66	68	67	61	64	52
2	55	66	58	59	50	68	69	68	66	61	63	61
3	55	67	68	58	53	68	68	69	65	62	62	60
4	55	67	59	56	54	67	67	70	65	63	63	60
5	56	67	57	59	55	66	67	70	65	62	64	65
6	57	67	57	58	56	69	67	70	63	62	63	58
7	58	66	56	58	56	67	67	70	64	62	63	59
8	58	67	56	57	56	66	67	70	65	62	63	60
9	58	67	57	58	56	67	67	70	66	62	62	59
10	58	66	57	58	59	65	67	69	65	62	62	58
11	60	64	57	58	60	65	67	70	65	61	62	58
12	60	63	55	58	70	66	67	70	65	61	62	58
13	60	63	55	56	74	66	67	70	64	61	62	57
14	60	63	55	55	74	66	67	70	63	61	62	57
15	60	61	58	55	74	66	67	69	63	61	63	57
16	60	62	59	56	74	64	68	69	63	61	63	56
17	61	63	60	56	75	63	68	70	61	61	63	55
18	60	63	61	56	76	63	68	70	59	61	63	55
19	61	64	61	56	72	63	68	71	59	62	63	54
20	61	63	61	56	71	63	69	70	60	62	62	54
21	61	63	60	55	72	64	69	70	61	63	62	54
22	61	61	60	54	69	64	68	70	61	63	62	54
23	61	62	60	54	69	64	68	70	61	63	62	53
24	60	62	61	53	72	65	68	70	61	63	62	53
25	62	62	61	52	71	66	66	69	61	64	62	50
26	63	62	60	52	71	66	66	69	61	65	62	50
27	66	60	59	51	71	67	68	69	61	66	61	50
28	66	60	59	51	70	67	68	69	61	67	62	50
29	66		58	52	69	67	68	68	61	67	62	52
30	66		58	52	69	67	68	66	61	65	62	53
31	65		60		69		69	65		65		53
	1866	1785	1812	1668	2039	1974	2094	2148	1883	1941	1873	1729
											Total	22,812
High	66	67	61	59	72	69	69	71	67	67	64	61
Low	55	60	55	51	50	63	66	65	59	61	61	50
Aver.	60	64	59	56	66	68	68	69	63	63	62	56

AVERAGE HIGHEST AND LOWEST NUMBER OF PATIENTS EACH MONTH

MONTH				MONTH			
1921	Aver.	High	Low	1921	Aver.	High	Low
January	60	66	55	July	68	69	66
February	64	67	50	August	69	71	65
March	59	61	55	September	63	67	59
April	56	59	51	October	63	67	61
May	66	72	50	November	62	64	61
June	66	69	63	December	56	61	50

CLINICAL FORMS

	Cases
Chronic Pulmonary Tuberculosis	116
Acute Pneumonic Phthisis	8
Miliary Tuberculosis	1
Tuberculosis Spine	2
Tuberculosis Enteritis	8
Tuberculosis Peritonitis	2
Tuberculosis of the Kidney	2
Tuberculosis Epiphysitis	1

COMPLICATIONS

Hemorrhage. Twenty cases had one or more hemorrhages, four deaths occurring from hemorrhage.

Diarrhea. Eight cases had tuberculous enteritis as a complication.

Meningitis. Two cases had meningitis occurring in the disease.

Laryngitis. Fifteen cases had laryngitis as a complication.

Other forms. Cervical glands, 1; tuberculous elbow and hip, 1; asthma, 1; fistula-in-ano, 2; diabetes mellitus, 1; syphilis, 3; tuberculous spine, 1.

SPUTA

Sputa. On entrance 105 were positive and 35 were negative.

RESULTS

Mortality. Fifty-two cases were discharged dead.

Unimproved. Thirty-nine cases were discharged unimproved.

Improved. Sixty-six cases were discharged with the disease improved.

Transferred. Eight cases transferred to Parker Hill Hospital, two to North Reading, one to Tewksbury, one to Holy Ghost Hospital, Cambridge, one to Mattapan, one to Naval Hospital, Chelsea.

Resident. Fifty-three cases remained in the hospital December 31, 1921, as against fifty-six cases December 31, 1920.

FELIX MCGIRR, M. D.,
Attending Physician.

DISPENSARY FOR TUBERCULOSIS

The undersigned herewith submits the annual report of the Dispensary for Tuberculosis for the year 1921.

The total number of physical examinations was 377.

Of these 169 were first examinations.

The remaining 208 were re-examinations.

Of the new cases 77 were males, and 92 were females.

The youngest case examined was 3 months old, the oldest 65 years of age.

There were 98 children examined under 16 years of age.

According to decade the relative ages were as follows:

Under 10 years of age	62
Between 10 and 20 years of age	48
Between 20 and 30 years of age	21
Between 30 and 40 years of age	16
Between 40 and 50 years of age	14
Between 50 and 60 years of age	5
Between 60 and 70 years of age	3

The following tabulation shows the diagnosis of the new cases:

Total	169
Positive cases	21
Arrested cases	2
Suspicious cases	24
Negative cases	107
Deferred cases	15
Total	169

The following shows the ages of the positive, arrested, and suspicious cases:

Positive ages: 7, 7, 20, 21, 21, 22, 26, 27, 28, 29, 32, 35, 40, 42, 42, 45, 51, 55, 56, 60.

Arrested ages: 26, 40.

33, 34, 44, 45, 65.

Suspicious ages: 5 mos., 1, 5, 6, 7, 7, 8, 10, 10, 11, 11, 12, 13, 15, 18, 19, 26, 32,

The number of suspicious cases under 16 years of age was 14.

The positive cases were divided according to sex as follows:

Males	11
Females	10

The foregoing is the sixth annual report of the Dispensary for Tuberculosis. It will be noted that there were 89 more examinations in 1921 than in any previous year. There was also a gain of 16 new patients over any preceding report. This increase in number was probably due to the service rendered by the additional nurse, who began duty prior to January, 1921. While a second nurse has helped considerably in the work of getting patients to come to the clinic for physical examinations, we believe that we

are still short-handed, and at least one more nurse added to our staff would undoubtedly result in another relative increase in the number of patients applying for examinations.

It is unfortunate that so little publicity is extended to the Dispensary. In many quarters we are practically unknown, and advertising in the form of placarding, etc., would no doubt add materially in bringing our clinic to the attention of the public. It will be noted from the above tabulation that 14 children under the age of 15 years were found to have suspicious symptoms of Tuberculosis. None of these children could be admitted to any State Sanatorium because of the diagnosis "Suspicious." There is no doubt that these cases need Sanatorium rest and treatment, and the earlier such treatment could be given, the better will be the prognosis of each case. The diagnosis of Tuberculosis in children is not easily made despite X-ray and laboratory aid;—rather, it is quite difficult, and requires protracted observation and examinations before a conclusive diagnosis is reached. It would seem therefore that the suspicious case should not be denied the necessary Sanatorium treatment immediately on the making of such diagnosis. I am strongly convinced that the delay necessary in making the diagnosis of Tuberculosis in children is frequently a detriment, and the only barrier preventing such unfortunates an opportunity of restoring them to health and renewal. The "Pre-ventorium" idea for children, in my opinion, is a long step forward, and I trust that we may soon see the realization of such an institution in our County.

I would suggest that a change in the name of the clinic be given some consideration. Whether or not eliminating the word "Tuberculosis" for another less ominous term might not attract a greater number of patients to the clinic is a debatable question. It would be well if some arrangement could be effected that would permit the school nurse to act as escort to the children on Saturday mornings. It can hardly be expected that mothers should give up their time on Saturday mornings for such a purpose.

The office is opened daily between 8-9 A. M. for administrative purposes. Examinations are made as heretofore, on Tuesdays and Saturday mornings, between 10-12 o'clock, and on Thursday evenings, between 7:30 and 9 o'clock.

PATRICK J. FLEMING, M. D.,
Dispensary Physician.

SCHOOL INSPECTION

The Board of Health employs six public school, and six parochial school, physicians, together with nine school nurses, to carry out the routine medical inspection in the schools.

School children of first, fourth, and eighth grades have a complete physical examination each year. Physical defects are noted, and the child is given a card to take home, recommending that defects be remedied.

All school children with any defects were followed up at home by the nurses. It has always been the policy to insist that the case first be referred to the family physician. If a physician could not be afforded, arrangements were made to bring the child to one of the several clinics in Cambridge or Boston.

A more detailed report of school inspection is given in the report of the head school nurse.

S. B. KELLEHER, M. D.,
Medical Inspector.

REPORT OF SCHOOL NURSES

The nine school nurses, working under the direction of the Board of Health, and in co-operation with the School Department, have carried on the work as in former years. The routine inspection was conducted in the primary, grammar, and high schools by the physicians and nurses. The nurses visit each room and examine every child at least once a month, and refer to the school physicians all cases for diagnosis.

All children with contagious or parasitic diseases are excluded by the principals and then followed into the homes by the nurses, where advice and instruction are given. At the schools where there are scales the children are weighed and measured, and a record kept from year to year. It is very desirable that all school buildings should be supplied with scales. Special attention is given to children suffering from malnutrition or in such physical condition that they would be unable to attend school but part of the time. These children are recommended by the physicians for the open air classes, and in many cases are soon able to return to the regular classes.

Cambridge has four Open Air Schools, and the results have been most satisfactory. It is very desirable that an Open Air Class be provided in the district comprising Wards 6 and 7, as many cases from that district must cross Massachusetts Avenue.

The Board of Health Dental Clinic cares for some of the dental work, but does not meet the great demand; examination shows that about one third of the children have defective teeth.

The Summer Open Air School was in session seven weeks at the Haggerty building. The children had rest periods and games in the grove at Fresh Pond. At least one nurse was always in attendance to see to the physical needs of the children. Each week the children were weighed and measured and a report sent to the parents. All the children were given a physical examination on entering the school, by the school physicians, who kindly gave their services. The nurses visited the homes and advised the parents in regard to any defects that were found.

The following is a summary of the follow-up work during the year:

HOME CALLS

Total number visits	10,262	Mumps	32
Tb. Survey (summer work)..	1,856	Scarlet Fever	1
Defective Vision	944	Measles	61
Conjunctivitis	106	Mumps	49
Tonsilitis	209	Rash	9
Enlarged Tonsils and Adenoids	1,666	Cervical Glands	7
Sore Throats	23	Cultures taken	13
Colds	48	Miscellaneous	2,058
Otitis Media	11	Dispensary Visits	(832)
Running Ears	27	Children taken to Clinics.....	6,114
Defective Teeth	1,398	Eyes	974
Scabies	241	Ears	263
Impetigo	361	Teeth	3,945
Ring Worm	149	Medical	374
Pediculosis	662	Surgical	539
Malnutrition	170	Posture	19
Cardiac	1	Physician's Exams	11,757
Nerve	5	Nurses' Exams	83,046
For Schick Test	44	State Notices	1,940
Diphtheria	4	Children excluded school.....	446
Pertussis	41	Cultures taken in school.....	49
Chicken Pox	64		

MARY C. CHURCH, R. N.,

Head School Nurse.

WORK CERTIFICATE PHYSICAL EXAMINATION

To the Board of Health, Cambridge, Mass.

Gentlemen:—I herewith respectfully submit the following report of the examination of children for working service during the year 1921:

DEFECTS

Number Seen	New Cases	Old Cases
1369	577	792

CERTIFICATES DEFERRED

Thirty Days	For a Few Days	Rejected
99	110	1

Teeth	97	Tonsils and Adenoids	75
Lungs	7	Defective Vision	20
Scabies	7	Underweight	65
Mental	1	Body Lice	1
Cardiacs	5	Pediculosis	117

Very respectfully,

S. C. ANDREWS, M. D.

REPORT OF INFANT WELFARE NURSES

We respectfully submit the following report of this division for the year ending December 31, 1921.

The Board of Health now maintains five permanent Infant Welfare Clinics, a new one having been opened at the Haggerty School, Mt. Auburn District, January 2, 1921.

The morning clinic, formerly at the Cambridge Shelter, East Cambridge, was transferred to an afternoon clinic at the Kelly School, Willow Street, East Cambridge, this being a more convenient time for mothers. Since the change there has been a much larger attendance at this clinic. All clinics show a big increase in attendance over previous years.

Clinics are now held at the following places:

Haggerty School, Mt. Auburn District.

Sleeper School, North Cambridge.

Kelly School, Willow Street, East Cambridge (Ward 3).

Community House, 17 Fifth Street, East Cambridge.

Riverside House, Ballard Place, off Putnam Avenue (Ward 7).

In August an additional nurse, Miss Jennie T. Malone, R. N., was appointed to this division, enabling us to do more follow-up work in the homes, both in number of cases followed up, and subsequent visits in urgent cases. It is hoped that next year we can report additional nurses, as they are needed, inasmuch as a great number of babies who die are not seen by the nurses because of lack of nurses and lateness in birth registration, the latter being the basis of our work. Prompt and correct registration, with another nurse on our staff, will enable us to show a greater reduction in our infant mortality.

The nurses are very grateful to the various Social Welfare Agencies, especially the Cambridge Welfare Union, and East End Union, and to all private individuals, for the co-operation and material aid given us in our work.

The Department is grateful to Doctors Walter Feeley, Samuel E. Chalfen, Samuel A. Clement, Morgan Hanlon, Phillip Yorshis, Leo T. Myles, and Dr. Simonds for their gratuitous services at the clinics.

Following is a detail report of our work, and of the Infant Mortality rate of Cambridge. Infant Mortality rate for 1921 is not accurate, because of incomplete birth registration; accurately, it should be lower.

INFANT MORTALITY UNDER ONE (1) YEAR
(Live births only)

INFANT MORTALITY (UNDER ONE (1) YEAR)
(Live births only)

	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
Number of deaths	294	275	244	243	243	205	303	205	272	203
Rate	100.7	89.6	78.4	78.5	77.9	62.7	92.4	62.9	84.55	59.62

CLINICS

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Clinics													
Haggerty School	5	4	4	4	4	4	3	5	3	5	4	4	49 Clinics
Total attendance	33	23	32	27	24	55	44	70	32	41	16	18	525 attendance
New cases	12	3	4	3	5	12	11	7	5	9	2	3	66 new cases
Community House	4	3	5	3	5	4	4	4	4	4	5	3	48 Clinics
Total attendance	63	95	153	80	103	80	86	105	105	99	84	67	1118 attendance
New cases	10	10	20	6	25	10	11	18	14	10	30	8	171 new cases
Sleeper School	4	4	5	4	4	5	4	5	4	3	5	4	51 Clinics
Total attendance	73	90	153	134	97	103	125	196	155	134	129	120	1509 attendance
New cases	6	13	24	15	16	21	15	26	16	20	10	4	86 new cases
Cambridge Shelter	3	4											7 Clinics
Total attendance	31	46											77 attendance
New cases	4	6											10 new cases
Kelly School			4	4	4	5	4	4	5	3	4	5	42 Clinics
Total attendance			89	80	115	129	120	142	158	64	138	89	1121 attendance
New cases			17	14	25	16	23	22	17	9	38	8	203 new cases
Riverside House	4	4	4	5	4	3	5	4	5	4	3	5	50 Clinics
Total attendance	79	69	94	112	93	83	83	130	157	137	92	83	1207 attendance
New cases	10	11	9	15	16	20	16	18	22	33	8	14	192 new cases

Total number of clinics	253
Total number of new cases	728
Total number attendance	5557
Average	21

TO THE CAMBRIDGE BOARD OF HEALTH

INFANT WELFARE NURSE'S (WARD IV.) REPORT FOR YEAR ENDING DECEMBER 31, 1921

Number of babies on visit list January 1, 1921.....473

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New Cases	25	24	50	31	23	45	31	19	35	37	15	51	386
Breast-Fed	19	21	35	27	14	30	21	16	29	29	11	41	
Breast and Bottle-Fed	2	0	7	3	4	7	7	2	6	6	2	8	
Bottle on General Diet ..	3	3	8	1	5	8	3	1	2	2	2	2	
Closed Cases	294	9	28	11	44	2	10	38	25	34	53	24	572
Babies over 1 year...	292	8	27	10	35	2	9	36	20	28	46	22	
Moved from city	2	0	0	1	7	0	0	0	3	6	5	2	
Died	0	1	1	0	2	0	1	2	2	0	2	0	
Birth Returns received..	63	29	31	25	20	38	26	28	25	28	52	18	383
Cases of Oph. Neon.....	1	0	0	1	0	0	1	0	0	1	0	0	
Cases referred to hos- pital O. P. D.	3	2	3	3	3	2	1	2	2	2	3	3	
Number of Home Visits	324	322	411	402	366	326	295	298	356	380	210	257	
Conferences (No. held)....	11	7	9	9	10	12	11	9	8	5	3	5	99
Total Attendances	202	163	291	274	274	310	381	334	298	223	102	331	3083
Number of babies	159	137	209	201	202	233	231	282	267	185	85	259	2450
Number of children....	43	82	73	72	77	50	52	52	31	38	17	72	633

Number of babies (under one year of age) on visiting list January 1, 1922.....287
Number of babies on visiting list January 1, 1922, including babies between ages of one and two years.....490

Respectfully submitted,

MIRIAM BENEDICT, R. N.

Respectfully submitted, MARY A. MACDONALD, R. N.
BRIDGET A. HEANUE, R. N.
JENNIE T. MALONE, R. N.

REPORT OF THE CONTAGIOUS DISEASE NURSES

To the Honorable the Board of Health of the City of Cambridge:

The undersigned respectfully submit the following report of communicable diseases which have been investigated during the year 1921:

Original Inspections and Investigations	4105
Inclusive of	
1. Unreported cases	732
2. Hospital cases	249
Subsequent Visits	1443
Total number of Visits	5548
Nature of diseases:	
Scarlet Fever	245
Diphtheria	221
Septic Sore Throat	8
Typhoid Fever	1
Measles	888
German Measles	57
Mumps	192
Chicken Pox	610
Whooping Cough	395
Infantile Paralysis	4
LaGrippe	4
Influenza	27
Cerebro Spinal Meningitis	5
Suppurative Conjunctivitis	2
Tetanus	2
Trachoma	2
Encephalitis Lethargica	2
Actinomycosis	1
Gonorrhea	2
Syphilis	3

ANNA B. DRISCOLL, R. N.

ANNA E. MAGUIRE, R. N.

INSPECTION OF MILK AND VINEGAR

I respectfully submit the following report from the Department of Milk and Vinegar for the year 1921:

The number of samples collected and examined was as follows:

Number of samples from wagons	2046
Number of samples from stores	674
Number of samples examined bacteriologically	828
<hr/>	
Total milk samples	3548
Number of vinegar samples	125
Number of butter samples	105
Number of ice cream samples	81
Number of cream samples	102
Number of sediment tests on milk	50
<hr/>	
Total samples other than milk	463
<hr/>	
Total of all samples	4011

The average quality of milk for the last five years has been:

	1921	1920	1919	1918	1917
Per cent Solids	12.33	12.31	12.28	12.21	12.33
Per cent Fat	3.66	3.62	3.60	3.75	3.63

These results indicate that the average quality of the milk is materially in excess of the State standard of not less than 12.00 per cent. milk solids and not less than 3.35 per cent. milk fat.

The average fat content of milk from stores was 3.67 per cent. and from wagons was 3.66 per cent. The close agreement is noteworthy and shows that, as a rule, the milk sold by stores substantially as delivered to them in bottles by the wagon operators.

Concerning failure of the milk to conform to the legal standard, there were sent out notices in 131 cases. Only in a few cases was it found necessary to prosecute in court. In these cases, the Department was upheld and fines were imposed.

Licenses for the sale of milk were issued to 65 wagon operators and to 597 storekeepers. These figures, when compared to the 1920 figures of 58 and 543, respectively, show a marked increase. The increase in wagon operators has been one of small dealers. Noteworthy was the issuing of licenses to some well known chain stores.

This movement was apparently initiated by one particularly large operator of Massachusetts chain stores. This enterprise, by association with a large creamery in Vermont on a co-operative basis, was able to offer to the public a milk from inspected dairies, acceptable as to sanitary methods; milk which is pasteurized and

bottled in the country and placed on sale here when 24 to 36 hours old. Furthermore, this milk was offered as of about 4.00 per cent. fat content; being identical practically with the grade A market milk, then selling at 18 cents the quart, and offered at 12 cents the quart. Dealers, in order to meet competition, cut their prices; one price cut led to another until at the end of the year the prices were for the 4.00 per cent. fat chain-store milk 9 to 10 cents the quart, as against 9 to 10 cents the quart for the 3.70 per cent. fat milk supplied to stores by the usual wagon operator. It is self-evident, that, other things being equal, a 4.00 per cent. fat milk is worth more than a 3.70 per cent. fat milk, and the service to the community by the offering of this chain-store milk seems a large one. As a direct result of the entrance of the chain store milk into the market, the price has tumbled from 15 to 16 cents to 9 to 10 cents the quart.

The situation as to visible dirt in milk continues improved, and it has been necessary to do less work upon this subject. Most dealers now appreciate the advantage of keeping visible filth out of milk, and competition seems to be helping to improve the market product.

The results of the examination of milk for bacteria were as follows:

Bacteria per cubic centimeter:

100,000 and less	53.0 per cent
Over 100,000 and less than 500,000	22.0 per cent
Over 500,000	15.0 per cent
Indeterminate	10.0 per cent

At present, the greatest cause of milk of high bacteria content is failure to ice the milk sufficiently. All the way from the milk pail to the consumer, there is a tendency, on the part of each person who handles the milk, to skimp on the ice. By so doing, there is saved, during the year, some money by each handler of the milk, but at a price disproportionate to the money saved; the price being milk of high bacteria content at the point of delivery to the consumer. The plain facts are that dealers who fail to ice milk sufficiently are cheating their customers, for the price paid by the consumer is large enough to pay for full and sufficient icing, and still leave a fair profit to the dealers. Milk that has been properly iced can be secured, and consumers are urged to buy no milk from dealers whose product shows insufficient icing, as indicated by failure of the milk to keep sweet a reasonably long time.

Good milk should be, first, of good nutritive value, that is to say, of good fat and solid content; second, of low bacteria content; and third, should have been produced by contented cows, handled by approved sanitary methods under proper conditions. In order to assure the public of the third set of values in the above enumeration, the inspection of dairies and a system of control of the admission of dairies to local sale, is necessary. The milk inspector can himself inspect a few local dairies, but most of the milk comes to us from sources hundreds of miles distant. The inspection of these distant dairies would require the expenditure of thousands of dollars yearly, and would, to a large extent, duplicate the work of other cities and towns of the state.

At present, if one city refuses permission to a dealer to sell the product of a dairy locally, because of unsanitary conditions on the farm, the custom frequently is for the dealer to ship and sell the product of this dairy in some other city or town where the objectionable character of the product is not known, because of the lack of a system of dairy inspection there.

Co-operation can remedy this condition, and there has been formed, during the year, the "Massachusetts City and Town Dairy Council." The purpose of this council being to render the results of dairy inspection available to all members upon payment by each city and town, not doing dairy inspection, of a small sum of money to a central office. By co-operation, all members would be kept informed of the location of bad dairies and of the dealers who handled such dairies. Having this information, it is apparent that a simple system of checking would permit the control of this important feature.

The Department enthusiastically supports this plan and feels sure that, if it be properly consummated, it will be possible by the expenditure of a few hundreds of dollars, to secure to the city values in clean milk measured only in terms of many thousands.

ICE CREAM

No violations of the statute requirements were found.

VINEGAR

No samples were found to be below the legal standard.

BUTTER AND OLEOMARGARINE

Licenses were issued to 87 dealers in oleomargarine. The price of butter has continued high and the sale of oleomargarine has been large. During the year the city has been without any protection by statute covering the amount of water to be permitted in butter, and some dealers have taken advantage of this fact. Attention was called to this situation in our 1920 report. The Federal requirement that butter shall contain not less than 82.5 per cent of milk fat is reasonable, and should be incorporated in our State law. A large quantity of butter has been sold, during the year, with a fat content even as low as 76 per cent. Having no law to enforce, the Department has been powerless to correct this situation. Corrective legislation should be enacted.

WILLIAM A. NOONAN, M. D.,
Inspector of Milk and Vinegar.

INSPECTOR OF SLAUGHTERING AND PROVISIONS

I respectfully submit the following report of inspections of provisions and slaughtering, for the year 1921.

During the year unusual progress in cleaning up some of the unsanitary stores has been made, due to the very good co-operation of the License Commissioners, who, at my request, on several occasions have suspended licenses until such time as the offenders complied with the Regulations of the Board.

A great increase in the number of markets and other food handling establishments, and the fact that three days a week I am in the slaughter-house, has caused my individual store inspections to be less frequent. The number of offenders is lessening, as I have warned them effectively that any violation of the Regulations will mean court proceedings. During the year it was necessary to complain of three persons in court for using filthy utensils in dispensing ice cream. All were found guilty and fined. Two complaints were made for offering and selling food unfit for human consumption. Both of these were found guilty.

The following is the customary detailed report:

MISCELLANEOUS PRODUCTS CONDEMNED

Ice Cream Cones	15½	packages
Fruit Syrups	8	pails

MARKET PRODUCTS CONDEMNED

Beef	431	pounds
Lamb	65	pounds
Fresh Pork	221	pounds
Cod and Haddock	103	pounds
Lobsters	93	in number
Clams and Oysters	2½	gallons

FRUIT CONDEMNED

Strawberries	31½	quarts
Grapes	44	pounds
Watermelon	27	in number
Canteloupe	3½	crates
Pears	½	bushel
Peaches	12	baskets
Blackberries, Blueberries and Raspberries	31½	quarts

VEGETABLES CONDEMNED

Potatoes	9	bushels
Asparagus	137	bunches
Sweet Potatoes	1½	bushels
Squash	½	barrel
Spinach and other greens	18	bushels
Pickles	52	gallons

SLAUGHTERING INSPECTION

Veal	14,432	in number
Poultry	50,000	pounds
Hogs	8	in number
Veal condemned	227	in number
Poultry condemned	832	pounds
Complaints received and investigated		350

In conclusion, it seems to me that the store inspection must suffer if the number of stores continues to increase, and my time in the slaughter-house continues, as it leaves only three days for store and other food handling establishment inspection. I think the time has arrived when the State should take over the duties of slaughter-house inspection.

Respectfully submitted,

JOSEPH L. JOHNSON,
Inspector of Slaughtering and Provisions.

The Report of Dr. D. L. Bolger, Inspector of Slaughtering, is included

HOUSING AND PLUMBING INSPECTOR

I respectfully submit my report as Housing and Plumbing Inspector for the year of 1921:

Complaints received and investigated	350
Complaints investigated, no cause	2
Complaints investigated, abated	228
Complaints investigated, uncompleted	120
Original visits	738
Subsequent visits	791
Orders served	11
Plumbing tests made	37
Unsanitary conditions remedied (including relocation of water-closets, ventilation of bedrooms, etc.):	
New water-closets installed	286
New bath rooms installed	14
Dwellings vacated	7
Lunch Room (improved)	1
Club Rooms (improved)	2
Dark water-closets corrected for light and ventilation.....	18
Dark hallways corrected for light and ventilation	2
Overcrowding	2

AUGUSTIN M. JOHNSON,

Housing Inspector.

VIOLATIONS OF REGULATIONS, NUISANCES ABATED, LICENSES GRANTED, ETC.

Water-closets—offensive and defective:

Filthy bowls (and urinals)	101
Leaking bowls	20
Broken bowls	32
Obstructed soil-pipes	60
Defective soil-pipes	58
Defective tanks	30
Defective Traps	43
Defective, or no, ventilation	4
Closets not supplied with running water	157
New closets installed (See Housing Inspector's Report also).....	5
New bowls installed	19
Defective supply-pipes (from tank to bowl)	50

Sinks—offensive and defective (including wash-bowls, bath tubs and set-tubs:

Filthy basins	15
Leaking basins	36
Defective traps	37
Defective drains	40
Obstructed drains	69
Untrapped drains	12
New sinks installed	13

Obstructed and defective house-drains	41
Offensive cesspools cleaned and removed	23
Offensive privy-vaults removed	8
Defective ice chest connections	5
Defective lunch cart connections	0
Defective barber shop connections	5
Wet and damp cellars remedied	66
Water in light wells	8
Stagnant water on premises removed	55
Stagnant water in streets and gutters removed	36
Dirty yards cleaned	556
Dirty roofs cleaned	8
Dirty buildings cleaned	32
Dirty light wells cleaned	18
Dirty cellars cleaned	220
Dirty sheds cleaned	11
Dirty stores cleaned	24
Dirty hen-coops cleaned	41
Dirty stables cleaned	39
Uncovered manure pits properly covered	12
Manure pits repaired, and new pits built	9
Manure in yards and lots removed	8
Vacant lots cleaned	28
Defective, or lack of stable connections (gutters, traps and drains)	8
Defective stable floors repaired	13
Filthy garbage receptacles cleaned	90
Filthy garbage bins cleaned	79
New garbage receptacles provided—with covers.....	190
New garbage receptacles covers provided	96
Dead animals removed	53
Fowl removed from dwelling-houses (cellars, attics, etc):	
Number of houses	13
Noisy roosters removed	138

Bakeries cleaned and whitened	12
Unsanitary dwellings vacated	10
Unsanitary stables vacated	6
Unsanitary barber-shops vacated	1
Plumbing tests made (peppermint and blueing)	2
Stables occupied without license	7
Keeping hens without licence	26
Keeping pigeons without license	8
Keeping hogs without license	5
Hearing notices posted	237
Hearings advertised in public press	19
Legal orders served	292
Houses disinfected	607
Public sanitariums—inspections and cleanings	416
Public sanitariums repaired	4
Inspections by sanitary inspectors	15,132
Subsequent inspections by sanitary inspectors	7,526
Complaints received by inspectors through office	855
Complaints received by inspectors outside of office	858
Complaints received and investigated—no cause	195
*Complaints received and investigated—nuisance abated	1,476

Hearings given:

On applications to keep horses	19
On applications to keep hens	201
On applications to keep pigeons	9
On applications to keep and sell live fowl	6
On applications to keep ducks	2

Permits granted:

Stables—cows	11
Stables—horses	12
Hens	177
Pigeons	9
Keep and sell live poultry	4

Licenses granted:

Undertakers (including temporary conditional licenses).....	49
Manicure and massage	33
Rummage sales	19
Collect and cart grease	9
Collection and cart grease	24
Cart garbage	3
Denatured alcohol dealers	24
To fill premises	5
To distribute free samples of medicine	0
Day Nursery	1

Premises approved at suitable:

Day Nursery	1
To board infants	18
To maintain lying-in hospitals	5
To slaughter cattle	3

Permits issued for burial and removal of dead bodies:

Died in Cambridge	1,494
Died outside of Cambridge	44
Disinternments	6

Patients removed to hospitals :

To Massachusetts Homeopathic Hospital, Brighton	215
To Tuberculosis Hospital, Concord Avenue	31
To Somerville Hospital	1
To Massachusetts Eye and Ear Infirmary, Boston	1

*Numerical difference between complaints investigated (abated), and complaints received, is due to unabated nuisances brought forward from previous year, and those carried to new year.

Respectfully,

JOHN D. CROWLEY,
Clerk.

REPORT OF THE TRUSTEES OF THE SAUNDERS TEMPERANCE FUND

Cambridge, Massachusetts.

Gentlemen:

I wish at this time to submit to you this statement of the work which I have been doing as City Missionary for your approval. I have attended the Third District Court on an average of twice a week, and offered my services to the officers of said Court pertaining to my work. From time to time I have attended to matters which they have called to my attention. I have also been called upon to give assistance to some unfortunates in this City, which I have done, namely providing board and room, and also sometimes food for people who were in need. During Christmas week I received quite a few names from citizens in this City of people in need, and they were provided with Christmas dinners.

Respectfully submitted,

BERNARD J. BROGAN,
City Missionary.

APPENDIX

ORDINANCES

PASSED BETWEEN APRIL 1, 1921, AND APRIL 1, 1922.

An Ordinance in Relation to Dance Halls.

Be it ordained by the City Council of the City of Cambridge as follows:

Section 1. Improper dancing will not be tolerated. Persons so indulging will be immediately ejected.

Section 2. No moonlight or shadow lighting effects will be permitted. The hall must remain fully lighted.

Section 3. Smoking is prohibited except in rooms reserved for smoking.

Section 4. Gentlemen must not enter the ladies' rooms or parlors.

Section 5. No dance shall continue after 2 o'clock A. M. unless by written permission of the Mayor, and not later than 11:30 o'clock P. M. on Saturday.

Section 6. One or more Police Officers shall be in attendance at all public dances, and a matron selected by the Chief of Police or his representative, shall also be in attendance. Parties conducting dance or entertainment shall be obliged to pay for the services of the Police Officer and Matron.

Section 7. Pass-out checks are not to be issued.

Section 8. Minors under seventeen years of age shall not be admitted to halls unless accompanied by parent or guardian. This shall be given special attention by the management and Police Officer.

Section 9. Disorderly persons will be arrested for "disturbing a public assemblage."

Section 10. All emergency exits from hall, including the entries and stairways of such exits, shall be properly lighted while the audience is in the hall.

Section 11. All orchestras are directed to obey the orders of the representative of the Mayor to cease playing should conditions so justify.

June 9, 1921.

Approved: EDWARD W. QUINN, Mayor.

An Ordinance in Amendment to an Ordinance Entitled:
"Regulation of Traffic"

Be it ordained by the City Council of the City of Cambridge as follows:

Article I is hereby amended by adding the following at the end of Section 3:—

No vehicle shall pass a street car on the left whether the street car has come to a stop or is in motion.

Also by adding the following sections:

Section 11. All vehicles travelling through Central Square and all vehicles travelling on Massachusetts Avenue, between Temple and Norfolk Streets, shall keep a single column with other vehicles going in the same direction.

Section 12. All vehicles while crossing bridges fording the Charles River shall be restricted to a speed of 15 miles per hour.

Section 13. No vehicles shall be permitted to park on Norfolk Street, between Massachusetts Avenue and Austin Street, between 8 A. M. and midnight.

Section 14. No vehicles shall be permitted to park on Brookline and Pearl Streets, between Massachusetts Avenue and Green Street.

As amended Article I will read as follows:

ARTICLE I

Vehicles in Motion

- Section 1. A vehicle except when passing a vehicle ahead, shall keep to the right and as near the right curb as possible.
- Section 2. A vehicle meeting another vehicle shall pass on the right.
- Section 3. A vehicle overtaking another vehicle shall, in passing, keep to the left, but it shall not leave the line on the right unless there is a clear way of at least one hundred feet in advance on the left. No vehicle shall pass a street car on the left whether the street car has come to a stop or is in motion.
- Section 4. On a highway divided longitudinally by a parkway, reserved space for street railway cars, viaduct, walk or sunken way, vehicles shall keep to the right of such division.

- Section 5. A vehicle when turning to the right into another street shall keep as near to the right curb as possible.
- Section 6. A vehicle in turning to the left into another street shall pass to the right of and beyond the center of the intersecting street before turning.
- Section 7. A vehicle crossing from one side of the street to the other shall do so by turning to the left, so as to head in the general direction of traffic on that side of the street.
- Section 8. Slow-moving vehicles shall keep as close as possible to the curb on the right, so as to allow faster moving vehicles free passage on the left.
- Section 9. No person having charge of a vehicle shall allow the same to come within ten feet of any vehicle in front of him when approaching a crossing where a pedestrian is about to pass.
- Section 10. No person shall drive nor guide two or more horses harnessed respectively to different vehicles.
- Section 11. All vehicles travelling through Central Square and all vehicles travelling on Massachusetts Avenue, between Temple and Norfolk Streets, shall keep a single column with other vehicles going in the same direction.
- Section 12. All vehicles while crossing bridges fording the Charles River shall be restricted to a speed of 15 miles per hour.
- Section 13. No vehicles shall be permitted to park on Norfolk Street, between Massachusetts Avenue and Austin Street, between 8 A. M. and midnight.
- Section 14. No vehicles shall be permitted to park on Brookline and Pearl Streets, between Massachusetts Avenue and Green Street.

Section 1 of Article VII is hereby amended by striking out the entire section and substituting the following:

ARTICLE VII

One-Way Streets

Section 1. Vehicles shall pass only in one direction in the following named streets:

Harvard Street, between Columbia Street and Prospect Street, in a southeasterly direction.

Essex Street, between Massachusetts Avenue and Austin Street, in a northerly direction.

Dunster Street, between Mt. Auburn Street and Massachusetts Avenue, in a northerly direction.

Vehicles shall stand only at the curb on the right on one-way streets, but vehicles may stop at the opposite curb to let off or take on passengers or to receive or deliver merchandise.

Section 1 of Article VIII is hereby amended by striking out the third paragraph and substituting in place thereof the following:

“Massachusetts Avenue, between Temple and Norfolk Streets.”

As amended, Article VIII will read as follows:

ARTICLE VIII

Restricted Streets

Section 1. Between the hours of 8 o'clock A. M. and 7 o'clock P. M. in the following named streets there shall be no delivery of coal, ice, barrels or kegs, or backing up of vehicles to the curb, the cleaning out of cesspools or the opening of manholes, except in an emergency, and then only on permit of the superintendent of streets:—

Prospect Street, between Massachusetts Avenue and Austin Street.

Massachusetts Avenue, between Temple and Norfolk Streets.

No vehicle shall remain standing in restricted streets for more than ten minutes at a time.

In the “Danger Zone” on Massachusetts Avenue, between Essex and Pearl Streets as indicated by posts no vehicle shall stop, except in case of emergency or accident.

July 28, 1921.

Approved: EDWARD W. QUINN, Mayor.

An Ordinance in Amendment of an Ordinance entitled “Construction, Maintenance and Construction of Buildings”

Be it ordained by the City Council of the City of Cambridge as follows:

Section 19 of said Ordinance is hereby amended by adding under the heading: “Business Buildings C” the following:

“Also they may be built of steel frame with metal siding not over one story high in District 1”.

The paragraph as amended will read as follows:

“Provided, however, that storage buildings may be built of 2-C construction to a height of 75 ft., also they may be built of steel frame with metal siding not over one story high in District 1.”

Nov. 17, 1921.

Approved: EDWARD W. QUINN, Mayor.

MAYORS OF THE CITY OF CAMBRIDGE

(From 1846 to 1922 inclusive)

James D. Green	From May,	1846, to April,	1848
Sydney Willard	"	April, 1848, to April,	1851
George Stevens	"	April, 1851, to April,	1853
James D. Green	"	April, 1853, to April,	1854
*Abraham Edwards	"	April, 1854, to January,	1855
Zebina L. Raymond	"	January, 1855, to January,	1856
John Sargent	"	January, 1856, to January,	1860
†James D. Green	"	January, 1860, to July 24,	1861
§Charles Theo. Russell	"	July 31, 1861, to January,	1863
George C. Richardson	"	January, 1863, to January,	1864
Zebina L. Raymond	"	January, 1864, to January,	1865
J. Warren Merrill	"	January, 1865, to January,	1867
Ezra Parmenter	"	January, 1867, to January,	1868
Charles H. Saunders	"	January, 1868, to January,	1870
Hamlin R. Harding	"	January, 1870, to January,	1872
Henry O. Houghton	"	January, 1872, to January,	1873
Isaac Bradford	"	January, 1872, to January,	1877
Frank A. Allen	"	January, 1877, to January,	1878
Samuel L. Montague	"	January, 1878, to January,	1880
James M. W. Hall	"	January, 1880, to January,	1881
James A. Fox	"	January, 1881, to January,	1885
William E. Russell	"	January, 1885, to January,	1889
Henry H. Gilmore	"	January, 1889, to January,	1891
Alpheus B. Alger	"	January, 1891, to January,	1893
William A. Bancroft	"	January, 1893, to January,	1897
Alvin F. Sortwell	"	January, 1897, to January,	1899
Edgar R. Champlin	"	January, 1899, to January,	1901
David T. Dickinson	"	January, 1901, to January,	1902
John H. H. McNamee.....	"	January, 1902, to January,	1904
Augustine J. Daly	"	January, 1904, to January,	1906
Charles H. Thurston	"	January, 1906, to January,	1907
*Walter C. Wardwell	"	January, 1907, to April,	1909
William F. Brooks	"	April, 1909, to April,	1911
J. Edward Barry	"	April, 1911, to April,	1914
Timothy W. Good	"	April, 1914, to Dec.,	1915
Wendell D. Rockwood	"	January, 1916, to January,	1918
Edward W. Quinn	"	January, 1918, to	

*Municipal year changed. †Resigned. §First elected by the City Council.

PRESIDENTS OF THE BOARD OF ALDERMEN

1888	Edward W. Hincks	1903	*John W. Coveney
1889	John H. Corcoran	1903	Timothy W. Good
1890	Alvin F. Sortwell	1904	John W. Coveney
1891	William A. Bancroft	1905	J. Edward Barry
1892	William A. Bancroft	1906	Charles H. Lake
1893	John F. Fairbain	1907	Charles H. Lake
1894	John G. Thorogood	1908	Edward B. James
1893	John R. Fairbairn	1909	Edward B. James
1896	John R. Fairbairn	1910	Edward B. James
1897	Russell Bradford	1911	James T. Barrett
1898	Russell Bradford	1912	James T. Barrett
1899	Walter C. Wardwell	1913	Peter J. Nelligan
1900	Walter C. Wardwell	1914	Peter J. Nelligan
1901	George E. Saunders	1915	Peter J. Nelligan
1902	James F. Aylward		

*John W. Coveney resigned March 10, 1903, and Timothy W. Good elected to the vacancy.

PRESIDENTS OF CITY COUNCIL

1916	Edward J. Dunphy	1919	James T. Barrett
1917	Edward J. Dunphy	1920	James T. Barrett
1918	Dr. John P. Good	1921	James T. Barrett
	1922	James T. Barrett	

PRESIDENTS OF THE COMMON COUNCIL

1846	*Isaac Livermore	1871	*Joseph H. Converse
1847	*John Sargent	1872	*Alvaro Blodgett
1848	*John C. Dodge	1873	*Alvaro Blodgett
1849	*Samuel P. Heywood		Resigned June 17
1850	*Samuel P. Heywood	1873	Francis H. Whitman
1851	*John S. Ladd		Elected June 17
1852	*John Sargent	1874	George F. Piper
1853	*John Sargent	1875	George F. Piper
1854	*John C. Dodge	1876	Frank A. Allen
1855	*Alanson Bigelow	1877	*Perez G. Porter
1856	*Ezra Ripley. Resigned	1878	*George S. Saunders
	January 31	1879	*George S. Saunders
1856	*George S. Saunders	1880	*Charles Walker
	Elected January 31	1881	*Charles Walker
1857	*George S. Saunders	1882	George H. Howard
1858	*James C. Fisk	1883	George H. Howard
1859	*James C. Fisk	1884	George H. Howard
1860	*Hamlin R. Harding	1885	Cornelius G. H. Bennink
1861	*Hamlin R. Harding	1886	John H. Corcoran
1862	*Jared Shepard. Resigned	1887	John H. Corcoran
	September 17	1888	*Alvin F. Sortwell
1862	*Knowlton S. Chaffee	1889	*Edward A. Bingham
	Elected September 24	1890	*Edward A. Bingham
1863	*George S. Saunders	1891	Edward C. Wheeler
1864	*George S. Saunders	1892	Herbert A. Chase
1865	*John S. March	1893	J. Henry Russell
1866	*John S. March	1894	Charles M. Conant
1867	*Marshall T. Bigelow	1895	*John L. Odiorne
1868	*Knowlton S. Chaffee	1896	*John L. Odiorne
	Resigned February 4	1897	Albert S. Apsey
1868	*Henry W. Muzzey	1898	George S. Saunders
	Elected February 4	1899	William F. Brooks
1869	*Henry W. Muzzey	1900	John D. Merrill
1870	*Joseph H. Converse	1901	John D. Merrill

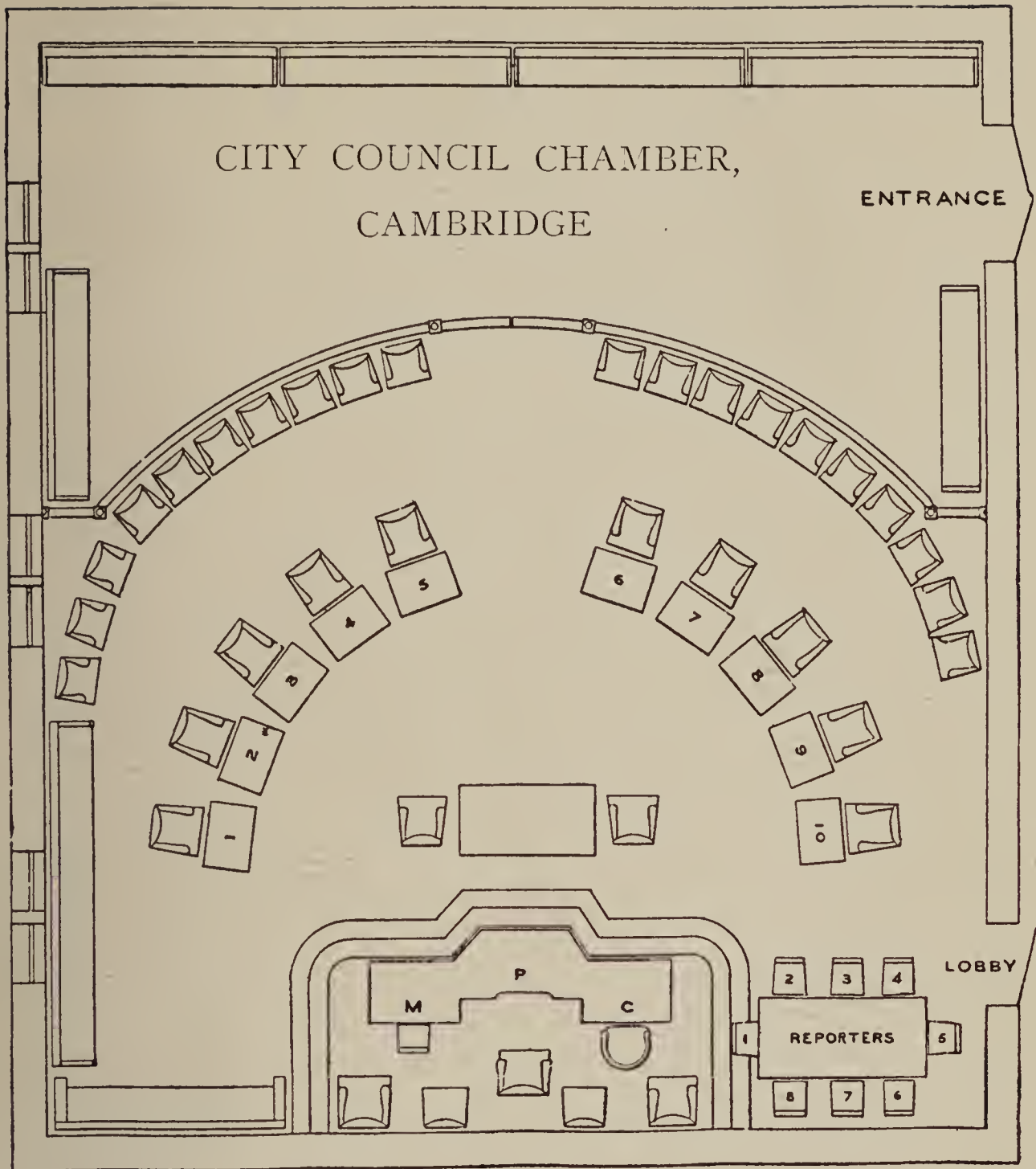
1902	*Thorndike Spalding	1909	Jesse W. Moreland
1903	Edward E. Clark	1910	Irving N. Linnell
1904	Harry N. Stearns	1911	Frederick H. Burke
1905	George A. Giles	1912	Timothy J. Horan
1906	George A. Giles	1913	John H. Lynch
1907	*Henry C. Stetson	1914	Frank J. Lehan
1907	*†Robert W. Hunter	1915	Arthur S. Browne
1908	Henry J. Winslow		

*Deceased.

†Elected to fill vacancy.

LEGAL HOLIDAYS

New Year's Day, January 1. Washington's Birthday, February 22. Patriots' Day, April 19. Memorial Day, May 30. Independence Day, July 4. Labor Day, September 6. Columbus Day, October 12. Thanksgiving Day, November 25. Christmas Day, December 25.



KEY TO CITY COUNCIL CHAMBER

Cambridge, 1922

P—JAMES T. BARRETT, President

- | | |
|----------------------|---------------------|
| 1. Councillor Mahler | 8. Councillor Lehan |
| 2. " Leahy | 9. " Griswold |
| 3. " Wright | 10. " Brown |
| 4. " Anderson | 11. " Drinkwater |
| 5. " Shea | 12. " Skilton |
| 6. " Coady | 13. " McCarthy |
| 7. " Hogan | 14. " Bradbury |

Reporters

- | | |
|--|--|
| 1. James W. Bean, Boston Globe and Cambridge Chronicle | 4. J. Lee Robinson, Cambridge Tribune. |
| 2. Harry J. Mahoney, Cambridge Sentinel. | 5. Ralph R. Stratton, Boston Herald. |
| 3. Edward J. Sennott, Cambridge Recorder. | 6. Joseph D. Harrington, Boston Post. |

CITY GOVERNMENT

Mayor

EDWARD W. QUINN
105 Fresh Pond Parkway

Councillors

President

JAMES T. BARRETT

Hugh G. Anderson	.....79	Trowbridge Street	.....At Large
James T. Barrett	.....97	Otis Street	.....At Large
Harold M. Bradbury	.....32	Rockingham Street	.....Ward 6
Roland E. Brown	.....10	Centre Street	.....Ward 5
Francis D. Coady	.....464	Windsor Street	.....Ward 3
Arthur Drinkwater	.....50	Buckingham Street	.....Ward 9
Merrill Griswold	.....25	Craigie Street	.....At Large
William M. Hogan	.....106	Fifth Street	.....Ward 2
Daniel P. Leahy	.....11	Montgomery Street	.....Ward 11
Frank J. Lehan	.....57	Otis Street	.....Ward 1
James E. Mahler	.....184	Harvard Street	.....Ward 4
John J. McCarthy	.....31	Putnam Avenue	.....At Large
Charles H. Shea	.....65	Putnam Avenue	.....Ward 8
Horace A. Skilton	.....61	Garfield Street	.....Ward 10
Franklin H. Wright	.....40	Magee Street	.....Ward 7

Officers of the City Council

City Clerk

FREDERICK H. BURKE

Clerk of Committees

DANIEL J. TOOMEY

City Messenger

A. FRANK MONTGOMERY

Regular meetings on Tuesday evenings, at eight (8) o'clock.

STANDING COMMITTEES OF THE CITY COUNCIL

Americanization and Education. Councillors Lehan, Brown, Leahy, Drinkwater, McCarthy.

Bonds. Councillors Leahy, Drinkwater, Wright.

City Engineering. Councillors Lehan, Anderson, Leahy.

City Planning. Councillors Shea, Anderson, Griswold, Wright, Drinkwater.

Claims. Councillors McCarthy, Anderson, Hogan, Coady, Drinkwater.

Elections and Printing. Councillors Brown, Wright, Shea, Leahy, Skilton.

Finance. President Barrett, Councillors Lehan, Hogan, Bradbury, Anderson, Coady, Shea, Mahler, Skilton, Brown, Drinkwater, Griswold, Leahy, McCarthy, Wright.

Health. Councillors Drinkwater, Brown, Skilton.

Industrial Development. Councillors Griswold, Lehan, Drinkwater, Shea, Anderson.

Legislative Matters. Councillors Wright, Bradbury, Skilton, Mahler, Leahy.

Licenses. Councillors Mahler, Bradbury, Skilton, Leahy, Wright.

Military Affairs. Councillors Hogan, Drinkwater, Mahler, Griswold, Leahy.

Ordinances. Councillors Lehan, Anderson, Hogan, Coady, Bradbury, Shea, Skilton.

Parks and Cemeteries. Councillors Anderson, Shea, Coady, Skilton, Wright.

Public Celebrations. Councillors Skilton, McCarthy, Wright, Hogan, Brown, Leahy, Coady.

Public Property and Public Institutions. Councillors Hogan, McCarthy, Lehan, Coady, Skilton.

Public Safety. Councillors Shea, Hogan, Leahy, Wright, Skilton.

Public Service. Councillors Bradbury, Griswold, Anderson, Mahler, Wright.

Roads and Bridges. Councillors Hogan, Bradbury, McCarthy, Anderson, Coady, Mahler, Leahy.

Rules and Orders. Councillors Wright, Brown, Mahler, Drinkwater, Skilton.

Soldiers' Aid. Councillors Drinkwater, McCarthy, Griswold, Mahler, Wright.

Water Supply. Councillors McCarthy, Anderson, Coady, Mahler, Shea.

Wires and Lamps. Councillors Coady, Leahy, Anderson, Hogan, Skilton.

SPECIAL COMMITTEES

On Matters Referred from last City Council. Councillors Coady, Griswold and Lehan.

On Topics in Mayor's Inaugural Address. Councillors Shea, Brown and McCarthy.

On Regulating Attendance of School Children at Amusements. Councillors Shea, Anderson and Mahler.

On Installing Acoustic Arrangements in the Council Chamber. Councillors Shea, Drinkwater and Leahy.

On Resolutions on Death of Maria L. Baldwin. Councillors Wright, McCarthy and Brown.

On School Halls. Councillors Skilton, Shea and Brown.

Sub-Committee on Finance. Councillors Skilton, Shea and Brown.

On Investigation of Charges Levied by Cambridge Electric Light Co. Councillors Leahy, Coady, Wright, Anderson and Mahler.

On Resolutions on the Death of Hon. William A. Bancroft. Councillors Barrett, Shea, Griswold, Skilton, McCarthy and Drinkwater.

On Resolutions on the Death of Hon. John W. Hammond. Councillors Brown, Drinkwater, Hogan, Anderson and Shea.

On Resolutions on the Retirement of John F. Sullivan as a Park Commissioner. Councillors Shea, Griswold and Brown.

DEPARTMENTS AND BOARDS

City Hall Telephone, 6800 University

EXECUTIVE DEPARTMENT

EDWARD W. QUINN, *Mayor*.

EDWARD A. COUNIHAN, *Mayor's Clerk*

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 17 and 18, City Hall

CITY CLERK DEPARTMENT

FREDERICK H. BURKE, *City Clerk*.

THOMAS J. CONRICK, *Assistant City Clerk*

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 8 and 9, City Hall

TREASURY DEPARTMENT

HENRY F. LEHAN, *City Treasurer and Collector of Taxes*

Office Hours: 8 a. m. to 2 p. m.

Office, Rooms 3 and 4, City Hall

AUDITING DEPARTMENT

CHARLES H. THURSTON, *City Auditor*

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 1 and 2, City Hall.

CLERK OF COMMITTEES DEPARTMENT

DANIEL J. TOOMEY, *Clerk of Committees*

ALBERT T. DOYLE, *Assistant*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 16, City Hall

CITY MESSENGER DEPARTMENT

A. FRANK MONTGOMERY, *City Messenger*HENRY P. CONROY, *Assistant*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 20, City Hall

LAW DEPARTMENTPETER J. NELLIGAN, *City Solicitor*

Office Hours (at City Hall): 8 a. m. to 12 m.

Office, Room 17, City Hall

Boston Office, 747 Tremont Building Telephone 2260, Haymarket

ENGINEERING DEPARTMENTLEWIS M. HASTINGS, *City Engineer*THOMAS P. O'NEILL, *Superintendent of Sewers*

Office Hours: 8 a. m. to 5 p. m.

Office, Rooms 30 and 31, City Hall

BUILDING DEPARTMENTJEREMIAH F. DOWNEY, *Superintendent of Public Buildings and
Inspector of Buildings*WILLIAM D. COLLINS } *Building Inspectors*
WILLIAM J. O'CONNOR }WILLIAM A. FORD, *Inspector of Plumbing*WILLIAM J. STANGER, *Inspector of Gas Fitting*DANIEL F. OWENS, *Inspector of Elevators*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 28, City Hall

STREET DEPARTMENTEDWARD J. DUNPHY, *Superintendent of Streets*JOHN H. HOLT, *Clerk*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 12, City Hall

HEALTH DEPARTMENT

Board of Health

JOSEPH M. WADDEN, M. D., <i>Chairman</i>	Term, three years
JEREMIAH S. SULLIVAN	Term expired 1918
JOSEPH M. WADDEN, M. D.	Term expires 1925
ELIE H. LA PIERRE	Term expires 1923
SIMON B. KELLEHER, M. D., <i>Medical Inspector</i>	
JOHN D. CROWLEY, <i>Clerk</i>	
WALTER C. FEELEY, M. D., <i>Bacteriologist</i>	
WILLIAM A. NOONAN, M. D., <i>Inspector of Milk and Vinegar</i>	
JOSEPH L. JOHNSON, <i>Inspector of Provisions</i>	

Office Hours: 8 a. m. to 4 p. m.

Rooms 25, 26 and 27, City Hall

POLICE DEPARTMENT

JOHN J. MCBRIDE, *Chief*
Telephone 423

FIRE DEPARTMENT

JAMES M. CASEY, *Chief*
Telephone 109

ASSESSORS' DEPARTMENT

BERNARD F. FALLON, <i>Chairman</i>	JOHN C. HAVERTY, <i>Secretary</i>
	Term, three years
BERNARD F. FALLON	Term expires 1923
JOHN C. HAVERTY	Term expires 1923
JAMES J. CASEY	Term expires 1925
CARRIE A. ESTES, RUTH E. MCGUIGAN, LORETTA F. CROWE, ISABEL M. KIELY, <i>Clerks</i>	

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 21 and 22, City Hall

CITY ELECTRICAL DEPARTMENT

TIMOTHY C. O'HEARN, *City Electrician*

Office Hours: 8 a. m. to 4 p. m.

Office, Central Fire Alarm, Inman Square Building

Telephone 125

INSPECTOR OF ANIMALS DEPARTMENT

DAVID L. BOLGER, M. D. V., *Inspector of Animals*

Residence, 35 Ash Street

Telephone 3550

(No Office or Hours)

BRIDGE DEPARTMENT

FRANCIS J. SMITH, *Bridge Commissioner*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 12, City Hall

SEALER OF WEIGHTS AND MEASURES DEPARTMENT

FELIX C. McBRIDE, *Sealer*HUGH H. HEALEY, *Deputy Sealer and Inspector*EMERY T. MORRIS and JOSEPH O'NEIL, *Deputy Sealers*

Office Hours: Fridays, 8 a. m. to 4 p. m.

Saturdays, 8 a. m. to 12 m.

Office, Brattle Square Building

Telephone 509-W

CITY PHYSICIAN

WILLIAM G. BROUSSEAU

Residence, 2343 Massachusetts Avenue

Telephone 1285

Office, Central Square Building

Office Hours: Daily, 9 to 11 a. m.

Telephone 660

FENCE VIEWERS

LEWIS M. HASTINGS, City Hall

JEREMIAH F. DOWNEY, City Hall

CAMBRIDGE PLANNING BOARD

WALTER F. EARLE, *Chairman*

WALTER F. EARLE	.	.	.	.	.	Term expires 1922
HELEN CABOT ALMY	.	.	.	.	.	Term expires 1924
JOSEPH AUTH'ER	.	.	.	.	.	Term expires 1925
BENJAMIN ROSEMAN	.	.	.	.	.	Term expires 1926

ARTHUR C. COMEY, *Consultant*

SCHOOL COMMITTEE

Mayor, EDWARD W. QUINN, *Chairman*CHARLES F. HURLEY, *Vice-Chairman*

CHARLES F. J. McCUE, 10 Prentiss Street	.	Term expires 1923
NORA J. DRISCOLL, 1200 Massachusetts Avenue		Term expires 1923
JAMES S. CASSEDY, 356 Harvard Street	.	Term expires 1923
MRS. JESSIE W. BROOKS, 10 Linnaean Street		Term expires 1923
CHARLES F. HURLEY, 1218 Massachusetts Avenue		Term expires 1923
FRANCIS J. ROCHE, 94 Amory Street	.	Term expires 1923

AGNES M. WADDEN, *Secretary**Business Agent*

CONSTANTINE J. CHURCH

Superintendent of Schools

MICHAEL E. FITZGERALD

Assistant Superintendent and Director of Continuation School

JAMES DUGAN

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 13, 14 and 15, City Hall

CITY HOSPITAL DEPARTMENT

*Trustees of Cambridge City Hospital*CHARLES S. CAHILL, *Chairman*

JOHN H. HURLEY	.	.	.	.	.	Term expires 1923
ISAAC McLEAN	.	.	.	.	.	Term expires 1924
FRANK F. ROGERS	.	.	.	.	.	Term expires 1925
JOHN J. QUINLAN	.	.	.	.	.	Term expires 1926
CHARLES S. CAHILL	.	.	.	.	.	Term expires 1927

CEMETERY DEPARTMENT

Cemetery Commissioners

THOMAS E. WILLIAMS, *Chairman*

Term, Three Years

THOMAS E. WILLIAMS	.	.	.	.	Term expires 1923
EBEN H. GOOGINS	.	.	.	.	Term expires 1923
JOHN MCKENZIE	.	.	.	.	Term expires 1924
GEORGE T. QUINN	.	.	.	.	Term expires 1924
JEREMIAH J. SULLIVAN	.	.	.	.	Term expires 1925
TIMOTHY F. MCCARTHY	.	.	.	.	Term expires 1925

Clerk of the Board

EDWARD F. SULLIVAN

Office, Room 23, City Hall

Superintendent of the Cemetery

THOMAS J. CAVANAGH

Clerk of the Cemetery

GREGORY L. GALLAGHER

Office Hours: at Cemetery, 8 a. m. to 5 p. m.

Office at Cemetery on Coolidge Avenue

Telephone 5

*Person to Cause to be Properly Interred the Bodies of Soldiers
and Sailors*

EDWARD F. SULLIVAN

Office, Room 23, City Hall

PUBLIC LIBRARY DEPARTMENT

Trustees of Cambridge Public Library

JOHN A. BUTLER, *President*

For One Year

CHARLES F. J. McCUE of School Committee

Citizens at Large. Term, Three Years

JOHN A. BUTLER	.	.	.	.	Term expires 1923
NELLIE F. CROWLEY	.	.	.	.	Term expires 1923
ROBERT E. YOUNG	.	.	.	.	Term expires 1924
EDWARD P. COLLIER	.	.	.	.	Term expires 1924

EDWARD REDSTONE	Term expires 1925
ALBERT E. LYNCH	Term expires 1925
NELLIE F. CROWLEY, <i>Secretary</i>	ALBERT E. LYNCH, <i>Treasurer</i>
T. HARRISON CUMMINGS, <i>Librarian</i>	

Library open: 9 a. m. to 9 p. m. Reading Room: 9 a. m. to 9 p. m.
 Sunday, 2 to 9 p. m.

Office at Library Building, Broadway, Irving and
 Trowbridge Streets
 Telephone 610

WATER WORKS DEPARTMENT

Cambridge Water Board

JAMES J. SCULLY, *President*

Term, Five Years

JOHN F. O'BRIEN	Term expired 1918
JOHN F. CONROY	Term expires 1922
JOSEPH E. DOHERTY	Term expires 1924
BERNARD E. McDERMOTT	Term expires 1925
JAMES J. SCULLY	Term expires 1926

WALTER H. HARDING, *Clerk of the Board*

TIMOTHY W. GOOD, *Superintendent of Water Works*

WALTER H. HARDING, *Water Registrar*

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 5 and 6, City Hall

ELECTION COMMISSION

J. FRANK FACEY, *Chairman*

Term, Four Years

CHARLES J. WOOD	Term expires 1923
JOHN P. McCORMICK	Term expires 1924
HARRY A. PENNIMAN	Term expires 1925
J. FRANK FACEY	Term expires 1926

HARRY A. PENNIMAN, *Secretary*

Office at Central Square Building

Telephone 1027

PARK DEPARTMENT

*Park Commissioners*CARROLL W. DOTEN, *Chairman*

Term, Five Years

DENNIS J. MCCARTHY	.	.	.	.	Term expires 1923
ALLEN W. JACNSON	.	.	.	.	Term expires 1924
STEPHEN H. HARRINGTON	.	.	.	.	Term expires 1925
JOHN B. DORE	.	.	.	.	Term expires 1926
CARROLL W. DOTEN	.	.	.	.	Term expires 1927

JOHN F. DONNELLY, *General Superintendent*ROSE E. MANNING, *Secretary*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 11, City Hall

SINKING FUND DEPARTMENT

*Commissioners of the Sinking Fund*GEORGE G. WRIGHT, *Chairman*

Term, Three Years

DANIEL CRONIN	.	.	.	.	Term expires 1922
FRANCIS J. CARNEY	.	.	.	.	Term expires 1922
HERBERT M. BRIDEY	.	.	.	.	Term expires 1923
ROBERT S. KNOWLES	.	.	.	.	Term expires 1923
GEORGE G. WRIGHT	.	.	.	.	Term expires 1924
GUSTAVUS GOEPFER	.	.	.	.	Term expires 1924
WILLIAM J. HOPKINS, <i>Secretary</i>					HENRY F. LEHAN, <i>Treasurer</i>

OVERSEERS OF THE POOR DEPARTEMENT

*Overseers of the Poor*JOHN R. MCCOOL, *Chairman*

Term, Five Years

BERNARD F. WELCH	.	.	.	.	Term expires 1922
GEORGE D. COLGAN	.	.	.	.	Term expires 1922
CHARLES J. WILLIAMS	.	.	.	.	Term expires 1923
GEORGE P. O'BRIEN	.	.	.	.	Term expires 1924
JOHN R. MCCOOL	.	.	.	.	Term expires 1925
EDMUND A. WHITMAN	.	.	.	.	Term expires 1926
LEOPOLD BARTEL	.	.	.	.	Term expires 1926

JAMES E. FINNIGAN, *Secretary*

JOHN T. SHEA, *Superintendent of the City Home*
Office Hours, at Central Square Building, 8 a. m. to 4 p. m.
Telephones, City Home, 189; Office, 660

BOARD OF APPEAL

CLARENCE H. BLACKALL, *Chairman*
Term, Three Years

CLARENCE H. BLACKALL (Architect)

JOHN B. BYRNE (Master Builder)

HARRY N. STEARNS

BOARD OF LICENSE COMMISSIONERS

WILLIAM F. BROOKS, *Chairman*
Term expires 1925

JAMES M. CASEY, Chief of Fire Department

JOHN J. MCBRIDE, Chief of Police Department

CITY MISSIONARY

BERNARD J. BROGAN

AGENT FOR COMMITTEE ON SOLDIERS' AID

EDWARD F. SULLIVAN

WILLIAM F. BOYLE, JAMES T. COX, *Investigators*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 23, City Hall

TRUSTEES OF THE DOWSE INSTITUTE

FRANCIS G. PEABODY, *President*

EDWARD W. QUINN, Mayor, *ex-officio*

JAMES T. BARRETT, President of City Council, *ex-officio*

GEORGE HOWLAND COX

JOSEPH H. BEALE, JR.

FRANCIS G. PEABODY

JOSEPH H. BEALE, JR., *Secretary and Treasurer*

TRUSTEES OF THE SANDERS TEMPERANCE FUND

EDWARD W. QUINN, Mayor

JAMES T. BARRETT, President of City Council

FREDERICK H. BURKE, City Clerk

Ex-Officiis

TRUSTEES OF THE BRIDGE CHARITABLE FUND

EDWARD W. QUINN, Mayor

JAMES T. BARRETT, President of City Council

JOHN R. MCCOOL, Chairman of Overseers of Poor

Ex-Officiis

CIVIL SERVICE — LABOR DIVISION

HARRY L. LINCOLN, Registration Clerk

Office Hour: 4 p. m. daily

Except Saturday

MEASURERS OF GRAIN

EMERY T. MORRIS

FELIX C. McBRIDE

HUGH H. HEALEY

JOSEPH O'NEIL

SURVEYOR OF MECHANICS' WORK

CHARLES A. MASON

KEEPER OF LOCK-UPS

JOHN J. McBRIDE

CONSTABLES

(With power to serve civil process)

Daniel O'Brien

Solomon Haag

Edward F. Nye, Jr.

Floyd B. Morse

Bernard J. Brogan

Manuel F. Ricardo

Charles J. McGee
James M. Shannon
John Abramowicz
Gilmore B. Creelman
Albert Gertson
Charles E. McCarthy
George E. Cazmay

Charles R. Chaplin
John O. Laing
Francis B. Whouley
John H. Conlin, Jr.
John J. Allen
James P. Dailey

(Without power to serve civil process)

Charles L. Shantell
Thomas D. Packard
Jeremiah F. McDermott
Michael J. Sullivan
Matthew G. Crawford
Louis Roseman
Edward C. Fitzgerald
Robert M. Beck
Alfred Q. Tirrell
Edward J. Ferris
Deming E. Badger
Clarence W. Ledger
John Tukey
James Mahady
Michael Cangiano
William Ward
William L. Frye
Timothy J. Shine
Michael Twomey
John Woodhouse
Maurice Keezer
Patrick A. Berkeley, Jr.
J. Joseph Corcoran
William J. Cogan
Patrick Carroll
Frank E. Donelan
George Dunn
Eugene M. Flanagan
James J. Foley
Walter Foster

John B. Griffin
James A. Gorman
Joseph L. Hooley
Thomas A. Hughes
Dennis F. Hurley
Guy E. Henderson
Samuel Johanson
John J. Kelleher
William H. Lertora
Augustus Melvin
Hugh J. Mellen
John F. Tatten
John P. Nelligan
Thomas K. O'Connor
James H. Shuckrowe
John J. Sullivan
Daniel C. Sweeney
James T. Twohig
Edward F. Walsh
Edward F. Wadden
Frank H. Mulligan
William J. Martin
Arthur Stewart
Andrew Batchelor
Timothy E. Murphy
Timothy J. Horan
Hugh H. Keenan
Joseph J. Keough
Emery T. Morris
Charles R. Apted

Edward Butler
 John Connolly
 William Gramey
 Charles LaRochelle
 Mortimer Mahoney
 John McNamara
 James O'Toole
 James Reddin
 Francis Skinner
 Dennis White
 Andrew Wilson
 Walter McGrath
 Frank L. Bowie
 Michael J. Regan

Harry A. Sawyer
 Charles J. Ingalls
 George T. Duckens
 Robert J. Buchanan
 Manuel F. Medeiros
 Joseph Keezer
 John W. Jefferson
 Joseph J. Quinn
 William J. Duddy
 William O'Brien
 Timothy A. Callaghan
 John L. McNally
 William N. Anderson

PERSON TO RECEIVE INFORMATION OF DAMAGE BY DOGS

(*Ch. 102, Sect. 151, Revised Laws*)

JOHN J. McBRIDE

POUND KEEPERS

JAMES F. GRAY

JOHN J. TOOMEY

COMMITTEE FOR THE PRESERVATION OF FISH

THOMAS P. O'NEIL

INSPECTORS OF JUNK SHOPS

Pawnbrokers' Shops and Second-Hand Stores and Dealers

JOHN J. McBRIDE

HERBERT GORDON

JAMES E. MURRAY

JATRICK J. HURLEY

JAMES M. KEANEY

MICHEL J. BRENNAN

JOHN J. CANNEY

HAY WEIGHER

JOHN N. BOLSTER

INSPECTOR OF PRESSED OR BUNDLED HAY OR STRAW
WILLIAM E. WILSON

PUBLIC WEIGHERS

William A. Cheyne	Melvin McFarland
Dennis T. Coffey	Martin McMahon
Ernest Croake	Harry Meehan
Clyde E. Crozier	August Pawlowski
Leonard Day	Lawrence J. Toomey
Alexander S. Ford	James J. Travers
John F. Reilly	William H. Tupper
Manuel M. Rogers	William Varney
Alexander Russell	James A. Whalen
John M. Thayer	Philip C. Galvin
John J. Toomey	Charles A. McLaughlin
James B. Harris	Thomas Gibson
Robert Holden	Edward J. Barron
John H. Holt	Hugh F. Kelley
James Knowles	Anthony Palladano
Neil MacDonald	Patrick O'Connell
Edward A. Mahoney	Joseph P. Quinn
William Maloney	A. Jerome Thorner

Votes Cast
at
Municipal Election
November 8, 1921

Ward 6	Prec. 1	278	6	21	0	60	186	5
	" 2	488	6	24	2	170	275	11
	" 3	579	13	27	0	151	377	11
	" 4	721	7	25	0	311	371	7
	Totals	2066	32	97	2	692	1209	34
Ward 7	Prec. 1	637	9	18	1	204	399	6
	" 2	562	1	24	1	120	404	12
	" 3	732	13	24	0	365	315	15
	" 4	548	6	15	1	166	352	8
	Totals	2479	29	81	3	855	1470	41
Ward 8	Prec. 1	810	25	69	2	198	501	15
	" 2	912	44	51	5	348	421	43
	" 3	631	5	52	2	33	532	7
	Totals	2353	74	172	9	579	1454	65
Ward 9	Prec. 1	596	30	73	4	200	259	30
	" 2	563	30	44	2	145	315	27
	" 3	492	11	70	2	85	288	36
	" 4	453	2	11	1	70	360	9
	" 5	605	14	92	2	113	370	14
	" 6	793	12	57	3	139	565	17
	Totals	3502	99	347	14	752	2157	133
Ward 10	Prec. 1	822	15	124	12	339	306	26
	" 2	708	23	48	8	289	301	39
	" 3	724	3	56	1	58	592	14
	Totals	2254	41	228	21	686	1199	79
Ward 11	Prec. 1	753	16	35	6	219	462	15
	" 2	775	12	34	24	92	603	10
	" 3	658	7	36	18	26	557	14
	Totals	2186	35	105	48	337	1622	39
	Grand Totals	22020	436	1343	111	5182	14428	520

CITY COUNCIL

WHOLE NUMBER OF BALLOTS CAST				CITY COUNCIL												Blanks				
Ward	Prec.	1	2	Totals	John M. Ahearn 44 Dana St.	Hugh Gordon Anderson 79 Trowbridge St.	James T. Barrett 97 Otis St.	Dennis J. Callahan 14 Woodbridge St.	Matthew J. Corkery 261 Mt. Auburn St.	Patrick James Curley 25 Donnell St.	John C. Curtin 11 Norumbega St.	Martin A. Feeley 284 Harvard St.	Merrill Griswold 25 Craigie St.	Ray Wilson Guild 28 Upton St.	Henry J. Mahoney 503 Huron Ave.	John J. McCarthy 31 Putnam Ave.	Hyman Pill 4 Painwood Circle	Ralph Roland Rice 21 Cogswell Ave.	Daniel D. Sheahan 20 Hardwick St.	Blanks
Ward 1	Prec. 1	241	163	182	177	182	177	18	22	11	25	19	25	8	29	77	28	10	44	126
	" 2	367	224	163	243	163	243	12	27	21	38	58	32	14	57	119	55	19	173	213
	Totals	608	387	345	420	345	420	30	49	32	63	77	57	22	86	196	83	29	217	339
Ward 2	Prec. 1	418	185	173	311	173	311	45	37	26	27	38	48	16	109	129	59	11	159	299
	" 2	334	202	111	263	111	263	21	40	36	29	43	43	10	75	117	39	8	106	193
	Totals	752	387	284	574	284	574	66	77	62	56	81	91	26	184	246	98	19	265	492
Ward 3	Prec. 1	271	95	49	172	49	172	26	34	21	24	28	15	6	52	90	82	11	194	185
	" 2	287	84	40	186	40	186	7	11	12	30	28	18	10	64	131	91	10	173	253
	" 3	402	131	72	213	72	213	23	35	28	39	39	48	21	64	130	100	34	297	334
	" 4	396	146	63	277	63	277	21	70	32	29	47	39	28	86	192	130	20	228	176
	Totals	1356	456	224	848	224	848	77	150	93	122	142	120	65	266	543	403	75	892	948
Ward 4	Prec. 1	198	64	40	110	40	110	14	25	34	15	26	47	13	41	104	36	6	88	129
	" 2	495	168	126	214	126	214	41	53	64	56	114	75	56	143	154	167	67	148	344
	" 3	361	96	132	140	132	140	26	48	39	30	98	60	66	75	117	108	59	82	268
	" 4	532	170	171	194	171	194	39	90	47	47	179	107	126	168	146	153	119	119	243
	Totals	1586	498	469	658	469	658	120	216	184	148	417	289	261	427	521	464	251	437	984
Ward 5	Prec. 1	547	209	128	295	128	295	46	66	55	73	151	74	48	171	181	158	63	149	321
	" 2	591	172	172	279	172	279	36	74	51	58	199	103	86	239	213	169	89	99	325
	" 3	1054	342	424	381	424	381	75	180	49	87	413	324	216	343	239	252	284	133	474
	" 4	686	108	376	169	376	169	21	72	33	56	337	271	271	182	120	164	306	30	228
	Totals	2878	831	1100	1124	1100	1124	178	392	188	274	1100	772	621	935	753	743	742	411	1348

VOTES CAST AT MUNICIPAL ELECTION

585

Ward 6	Prec. 1	2066	456	744	695	143	322	207	256	638	504	500	568	751	465	517	208	1290
	" 2	488	107	180	154	43	70	50	40	161	136	122	135	185	114	126	58	271
	" 3	579	120	169	213	40	99	67	92	167	101	108	190	257	132	111	56	394
	" 4	721	156	306	216	38	116	60	91	247	216	195	192	208	158	231	55	399
	Totals																	
Ward 7	Prec. 1	637	135	238	219	41	158	41	51	236	124	159	169	279	98	188	63	349
	" 2	562	130	128	187	33	170	71	54	202	65	142	106	298	104	77	57	424
	" 3	732	82	373	149	23	90	41	80	348	190	303	155	130	176	303	41	444
	" 4	548	110	190	154	32	121	67	47	216	80	113	147	228	143	121	39	384
	Totals																	
Ward 8	Prec. 1	810	148	365	231	45	198	67	45	212	381	193	242	223	180	209	73	428
	" 2	912	158	508	218	33	213	51	47	297	441	282	204	213	119	332	65	467
	" 3	631	90	155	265	35	288	113	46	133	130	39	97	475	97	39	74	448
	Totals																	
Ward 9	Prec. 1	596	68	334	108	24	149	21	23	144	440	205	221	46	58	248	17	278
	" 2	563	81	245	120	23	207	45	40	102	362	152	187	127	69	156	26	310
	" 3	492	28	194	72	18	278	71	62	52	315	78	170	103	56	77	25	369
	" 4	453	73	91	126	26	181	114	275	50	96	50	161	141	33	71	28	296
	" 5	605	80	260	154	34	157	79	70	170	291	152	273	119	91	177	37	276
	" 6	793	136	225	244	49	361	277	102	165	256	159	276	245	119	118	70	370
	Totals																	
Ward 10	Prec. 1	822	133	395	196	43	150	63	50	291	472	273	219	129	120	332	48	374
	" 2	708	90	336	164	53	108	85	34	213	425	246	200	78	88	284	31	397
	" 3	724	131	162	289	77	217	446	99	74	143	73	200	247	96	81	104	457
	Totals																	
Ward 11	Prec. 1	753	174	298	286	118	99	134	83	187	245	156	187	164	146	248	66	421
	" 2	775	188	163	314	368	99	228	131	109	112	63	189	297	98	94	134	513
	" 3	658	182	79	209	231	131	271	119	67	84	33	146	250	79	60	115	576
	Totals																	
Grand Totals		22020	5232	7905	8024	1920	4581	3051	2377	5723	6485	4366	6015	6802	4226	4848	3543	12982

ASSESSOR				LICENSE		
				Yes	No	Blanks
Ward 1	Prec. 1	135	James J. Casey 129 Fresh Pond Pk'y	102	50	89
	" 2	234		165	86	116
	Totals	369		267	136	205
Ward 2	Prec. 1	253	Mary W. Willard	178	87	153
	" 2	200		155	74	105
	Totals	453		333	161	258
Ward 3	Prec. 1	153	Edward W. Quinn	123	49	99
	" 2	151		122	61	104
	" 3	269		180	101	121
	" 4	247		159	114	128
	Totals	820		584	325	447
Ward 4	Prec. 1	120		108	41	49
	" 2	329		204	162	129
	" 3	215		145	125	91
	" 4	362		200	220	112
	Totals	1026	1	657	548	381
Ward 5	Prec. 1	373	1	246	170	131
	" 2	421		171	271	149
	" 3	723		352	501	201
	" 4	467		209	345	132
	Totals	1984	1	978	1287	613

Ward 6	Prec. 1	172	106	125	80	73
	" 2	302	186	218	153	117
	" 3	359	220	217	204	158
	" 4	478	243	234	343	144
	Totals	1311	755	794	780	492
Ward 7	Prec. 1	409	228	252	236	149
	" 2	351	211	238	150	174
	" 3	405	327	217	338	177
	" 4	329	219	218	191	139
	Totals	1494	985	925	915	639
Ward 8	Prec. 1	555	255	242	363	205
	" 2	575	337	245	437	230
	" 3	366	265	287	130	214
	Totals	1496	857	774	930	649
Ward 9	Prec. 1	422	174	146	326	124
	" 2	413	150	199	233	131
	" 3	334	158	161	194	137
	" 4	324	129	196	112	145
	" 5	466	139	211	239	155
	" 6	593	200	306	270	217
Ward 10	Totals	2552	950	1219	1374	909
Ward 11	Prec. 1	534	288	224	402	196
	" 2	455	253	200	346	162
	" 3	493	231	319	198	207
	Totals	1482	772	743	946	565
Ward 11	Prec. 1	498	255	264	303	186
	" 2	579	196	340	269	166
	" 3	413	245	283	178	197
	Totals	1490	696	887	750	549
Grand Totals		14477	1	1	7541	8161
						8152
						5707

MUNICIPAL ELECTION, NOVEMBER 8, 1921—(CONTINUED)

SCHOOL COMMITTEE									
Ward 1	Prec. 1	44	103	39	187	83	172	336	Blanks
	" 2	76	159	72	281	143	256	481	
	Totals	120	262	111	468	226	428	817	
Ward 2	Prec. 1	83	174	70	343	179	288	535	
	" 2	61	136	52	277	122	242	446	
	Totals	144	310	122	620	301	530	981	
Ward 3	Prec. 1	56	112	38	216	105	203	354	
	" 2	53	95	40	224	88	215	433	
	" 3	78	167	89	326	150	313	485	
	" 4	92	156	68	325	144	307	492	
	Totals	279	530	235	1091	487	1038	1764	
Ward 4	Prec. 1	50	97	37	149	77	148	234	
	" 2	135	253	123	363	235	370	501	
	" 3	137	173	111	235	156	243	389	
	" 4	229	268	224	327	267	300	513	
	Totals	551	791	495	1074	735	1061	1637	
Ward 5	Prec. 1	125	283	127	418	250	410	575	
	" 2	174	256	164	384	272	446	668	
	" 3	496	601	479	603	622	605	810	
	" 4	491	456	491	269	445	248	344	

"	2	253	286	245	273	299	205	391
"	3	216	290	208	392	291	367	552
"	4	420	412	397	358	440	315	542
Totals		1029	1117	966	1186	1161	1040	1765
Ward 7	Prec. 1	285	334	289	389	325	348	578
"	2	192	236	168	385	243	354	670
"	3	480	423	476	301	438	257	553
"	4	237	233	235	336	269	294	588
Totals		1194	1226	1168	1411	1275	1253	2389
Ward 8	Prec. 1	487	560	453	349	555	333	503
"	2	622	624	584	358	640	319	501
"	3	116	225	119	512	256	467	829
Totals		1225	1409	1156	1219	1451	1119	1833
Ward 9	Prec. 1	498	479	487	138	449	134	199
"	2	414	427	399	187	425	164	236
"	3	319	321	310	189	328	187	314
"	4	131	216	118	335	236	307	469
"	5	372	406	360	275	447	241	319
"	6	548	457	509	470	353	486	349
Totals		2282	2306	2183	1594	2238	1519	1886
Ward 10	Prec. 1	586	572	591	305	604	266	364
"	2	534	503	503	224	509	207	352
"	3	224	359	206	545	384	493	685
Totals		1344	1434	1300	1074	1497	966	1401
Ward 11	Prec. 1	381	437	369	424	436	404	561
"	2	198	396	185	616	424	531	750
"	3	150	296	120	529	303	458	776
Totals		729	1129	674	1569	1163	1393	2087
Grand Totals		10183	12110	9671	12980	12123	12056	18957

CONTENTS

DEPARTMENTAL REPORTS, ETC.

For Other Reports, see after City Auditor's Report

CITY AUDITOR	3
Abatements and Refunds	91
Americanization of Foreign Born	39
Annuities and Trust Funds	123
Assets and Liabilities	102
Bridges, Boston and Cambridge	57
Cemeteries	70
Charities	57-138
City Home	57
Outside Aid	58
Municipal Hospital	59
City Funded Debt, City Serial Debt	111
City Income	34
Cemetery Department	39
City Clerk's Department	35
City Home	38
Commissioners of Sinking Funds	41
Commissioners of Water Sinking Funds	41
Court Fines	35
Dog Licenses from County	35
Edgestones and Sidewalks	40
Election Commission	35
Fire Department	36
Forestry	36
Health Department	37
House Offal	37
Interest	40
Law Department	35
Libraries	39
Licenses and Permits	34
Moth Extermination Assessments	35
Municipal Buildings	36
Municipal Hospital	37

Outside Aid	38
Park Department, Rents, etc.	39
Pensions	39
Police Department	36
Postage and Stationery	36
Premium Account	40
Receipt from Loans	41
Rent of Land—Harvard College	40
Rent of Land—Portland Street	40
Sale of Public Land	40
School Baths	39
School Department	38
Sealer of Weights and Measures	36
Sewer Assessments	88
Sewer Maintenance	37
Sidewalks and Driveways	38
Smith—Hughes Fund	40
Soldiers' Benefits	38
Street Department	37
Street Sprinkling Assessments	35
Tax Lien	41
Taxes	34
Telephone Exchange	39
Temporary Loans	41
Treasurer's Department	36
Water Department	39
City Property, List of	137
Bridge Department	146
Cambridge Cemetery	142
City Home	144
Engineering Department	145
Fire Department	140
Health Department	141
Inspection of Milk and Vinegar	141
Law Department	138
Miscellaneous Real Estate	199
Municipal Hospital	142
Park Department	151
Playgrounds and Equipment	152
Police Department	139

Public Library	149
Public Property Department	139
School Department	148
Sealer of Weights and Measures Department	142
Sewer Department	145
Street Department	146
Commissioners of Sinking Funds	74
Details of Sinking Fund	72
Education	60
Haggerty School Baths	60
Remodelling Shower Baths, Roberts School	61
Roberts School Baths	61
School Committee Expenses	60
Thorndike School Baths	60
Exempted Property	153
Health and Sanitation	52-78
Board of Health	52
Inspection of Animals	53
Inspection of Milk and Vinegar	53
School Dentist	54
Sewer Department, Construction General	128
Street Department—Sanitary Division	55
Sewer Maintenance	54
Suppression of Flies and Mosquitoes	54
Tuberculosis Hospital	52
Street Department Maintenance	55
Highways and Bridges	55-79
Austin Street	79
Brattle Street	79
Camelia Street	80
Clark Street	80
Copley Street	80
Craigie Street	80
Davenport Street	81
Ellsworth Park	81
Fainwood Circle	81
Fairview Avenue	81
Fayerweather Street	82
Gore Street	82
Grigg Street	82

Harvey Street	82
Hudson Street	83
Hubbard Park	83
Irving Street	83
Kendall Square	83
Lincoln Street	84
Linnaean Street	84
Marcella Street	84
Moore Street	84
Munroe Street	85
Orchard Street	85
Oxford Street	85
Pioneer Street	85
Poplar Street	86
Raymond Street	86
Rindge Avenue	86
Roseland Street	86
School Street	86
Second Street	87
Sherman Street	87
Sidney Street	87
Sumner Road	87
Tannery Street	87
Union Street	88
Walden Street	88
Waverley Street	88
Wendell Street	88
Sundry Streets	89
Edgestones and Sidewalks	89
Third, Sixth and Commercial Avenue Bridges	89
Interest and Maturing Debt	71
Libraries	61
List of City Property	183
Municipal Hospital	59-89
Payments—General Government	42
Administration of Sinking Funds	44
Assessors' Department	44
Assessors' Plans	47
Auditing Department	43
Auditing Special	43

City Clerk's Department	45
City Council Expenses	42
City Messenger's Department	45
Civil Service Registration	48
Clerk of Committees' Department	42
Election Commission	46
Engineering Department	46
Executive Department	42
Inspection of Buildings	47
Inspection of Junk Shops and Garages	45
Law Department	45
License Commission	44
Municipal Building	48
Treasurer's and Collector's Department	43
Protection of Life and Property	48
Electrical Department	50
Fire Department	49
Game Warden	51
Park Department—Forestry	51
Police Department	48
Sealer of Weights and Measures	51
Public Service Enterprises	75
Detector Meters	90
Filtration Plant	90
Water Department—Maintenance General	75
Water Department—Pumping	77
Water Maintenance—Reservoirs	76
Recreation	62
Park Department Maintenance	62
Floating Bath at East Cambridge	63
Bath at Gerry's Landing	63
Rindge Field, Link Fence	63
Rindge Field, New Bleachers	63
Russell Field, Repairs to Bleachers	63
Playgrounds Maintenance	64
Refunds	91
Refund on Department Bills	91
Refund Edgestone and Sidewalk Assessments	91
Refund Miscellaneous	91
Refund of Taxes	91

Soldiers' Benefits	59
State, County and Metropolitan Taxes, and Soldiers' Exemption	92
Smith-Hughes Fund	92
Statement Showing Auditor's and Treasurer's Expenditures and Balances	93
Unclassified	64
Captain James McCabe Fund	70
Damages to Persons and Property	65
Headquarters for the American Legion	69
Planning Board	68
Public Celebrations	69
Municipal Pensions	68
Postage and Stationery	64
Post 30, G. A. R.	69
Record of Enlisted Men	64
Renting and Housing Committee	119
Public Market	70
Seventy-fifth Anniversary	69
Telephone Exchange	68

DEPARTMENTAL REPORTS, Etc.

For City Auditor's Report, see page 3

Aid, Agent of Soldiers	560
Aldermen, Presidents of	545
Animals, Inspector of	3
Auditor	498
Board of Health	327
Board, Planning	389
Board, Water	478
Buildings, Superintendent of Public	433
Cambridge City Hospital	525
Cambridge Tuberculosis Hospital	386
Cemetery Commissioners, Board of	563
Chamber, Diagram of City Council	468
Chief of Police	581
City Elections	3
City Auditor	563
City Council Chamber, Diagram	563
City Council Chamber, Key	564
City Government	447
City Engineer	430
City Home	472
City Physician	5
City Treasurer	195
Commissioners of Sinking Funds	203
Committee on Finance	207
Committee, School	565
Committees of City Council	561
Common Council, Presidents of	567
Departments and Boards	563
Diagram, City Council Chamber	388
Dowse Institute Trustees	581
Elections, Votes Cast at City.....	383
Electrical Department	447
Engineer, City	203
Finance, Committee on	459
Fire Department	496
Funds, Trustees of Bridge Charitable	498
Health, Board of	iii
Inaugural Address	

Inspector of Animals	545
Inspector of Milk and Vinegar	541
Institute, Trustees of Dowse	388
Key, City Council Chamber	563
Library, Trustees of Public	357
Mayor's Inaugural Address	iii
Mayors of Cambridge	559
Measures, Sealer of Weights and	443
Municipal Register	559
Ordinances	554
Overseers of the Poor	429
Planning Board	327
Police Department	468
Poor, Overseers of the	429
Presidents of Aldermen	560
Presidents of City Council	560
Presidents of Common Council	561
Public Buildings, Superintendent of	418
Public Library Trustees	357
Register, Municipal	559
School Committee	207
Sealer of Weights and Measures	443
Sinking Fund Commissioners	195
City Elections	581
Streets, Superintendent of	481
Treasurer, City	5
Trustees, Dowse Institute	388
Trustees, Public Library	357
Votes Cast at City Election	581
Water Board	389
Saunders Temperance Fund	551
Housing and Plumbing Inspector	547
Infant Welfare Nurses	535

7929

111

167



